# XR-C750RDS/C850RDS

# SERVICE MANUAL

*AEP Model*
*UK Model*

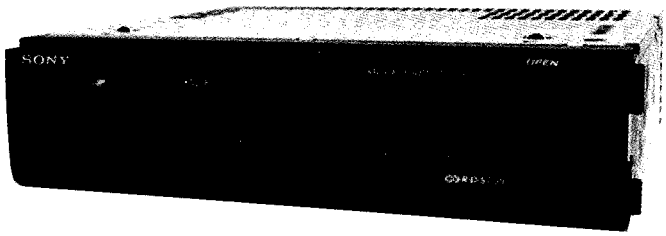


Photo : XR-C850RDS

| | |
|---|---|
| Model Name Using Similar Mechanism | XR-C700RDS |
| Tape Transport Mechanism Type | MG-52B-135 |

## SPECIFICATIONS

### Cassette player section

Tape track 4-track 2-channel stereo
Wow and flutter 0.08% (WRMS)
Frequency response 30 - 20,000 Hz
Signal-to-noise ratio

| Cassette type | Dolby B NR | Dolby C* NR | Dolby NR off |
|---|---|---|---|
| TYPE II, III, IV | 67 dB | 73 dB | 61 dB |
| TYPE I | 64 dB | 70 dB | 58 dB |

* XR-C850RDS only

### Tuner section

**FM**

Tuning range 87.5 - 108.0 MHz
Aerial terminal External aerial connector
Intermediate frequency 10.7 MHz
Usable sensitivity 9 dBf
Selectivity 75 dB at 400 kHz
Signal-to-noise ratio 65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz 0.5% (stereo), 0.3% (mono)
Separation 35 dB at 1 kHz
Frequency response 30 - 15,000 Hz
Capture ratio 2 dB

**MW/LW**

Tuning range MW : 531 - 1,602 kHz
LW : 153 - 281 kHz
Aerial terminal External aerial connector
Intermediate frequency 10.71 MHz/450 kHz
Sensitivity MW : 30 μV
LW : 50 μV

### Power amplifier section

Outputs Speaker outputs (sure seal connectors)
Speaker impedance 4 - 8 ohms
Maximum power output 40 W × 4 (at 4 ohms)

– Continued on next page –

## FM/MW/LW CASSETTE CAR STEREO

MICROFILM

SONY®

### General

| | |
|---|---|
| Outputs | Line outputs (3)<br>Power aerial relay control lead<br>Power amplifier control lead |
| Tone controls | Bass ± 8 dB at 100 Hz<br>Treble ± 8 dB at 10 kHz |
| Power requirements | 12 V DC car battery (negative ground) |
| Dimensions | Approx. 184 × 50 × 176 mm (w/h/d) |
| Mounting dimensions | Approx. 182 × 53 × 163 mm (w/h/d) |
| Mass | Approx. 1.3 kg |
| Supplied accessories | Parts for installation and connections (1 set)<br>Front panel case (1)<br>Rotary remote RM-X2S (1) |

*Design and specifications are subject to change without notice.*

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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### Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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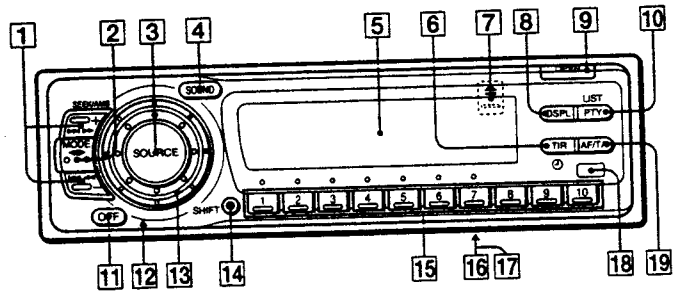
## Location of controls

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Refer to the pages for details.

1 **SEEK/AMS (seek/Automatic Music Sensor/manual search) button 6, 8, 9, 11, 12, 16, 17, 18, 21**

2 **MODE (band select, changer select, tape transport direction) button 6, 7, 8, 16, 17**

3 **SOURCE (source select) button 5, 6, 7, 8, 14, 16, 17, 20, 21, 22, 23, 24**

4 **SOUND button 14, 21, 22, 23, 24, 25**

5 **Display window**

6 **TIR button 11, 12**

7 **⏏ (eject) button (located on the front of the unit hidden by the front panel) 6**

8 **DSPL button (display mode change) button 6, 8, 9, 16, 20**

9 **OPEN button 4, 6, 26**

10 **PTY/LIST button**
**PTY 12, 13**
**Disc Memo 19**
**DSP Custom File 22**
**List-up 20**

11 **OFF button 4, 6**

12 **Reset button (located on the front of the unit hidden by the front panel) 4**

13 **Dial (volume/sub woofer volume/bass/treble/balance/fader control) 5, 14, 19, 21, 22, 23, 24**

14 **SHIFT button**
**BTM 7, 11**
**SET UP 5, 7, 13, 14, 15, 16, 25**
**PLAY MODE 7, 8, 10, 17, 18, 19, 20, 21, 22**

15 **During radio reception:**
**Preset number buttons 8**
**During CD/MD playback:**
**Direct disc selection buttons 16**

16 **POWER SELECT switch (located on the bottom of the unit)**
See "POWER SELECT switch" in the Installation/Connections manual.

17 **LINE-OUT/IN SELECT switch (located on the bottom of the unit) (XR-C850RW/C850RDS only)**
See "LINE-OUT/IN SELECT switch" in the Installation/Connections manual.

18 **Receptor for wireless remote**

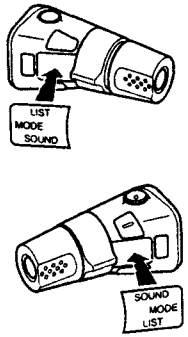
19 **AF/TA button 9, 10, 11**





## Preparing the rotary remote

When you mount the rotary remote, attach the label in the illustration below.

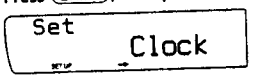



## Setting the clock

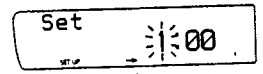
The clock has a 24-hour digital indication.

Example: Set the clock to 10:08

**1 Press (SHIFT), then press ② (SET UP).**




❶ **Press ④ (→).**



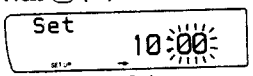

The hour digit flashes.

❷ **Set the hour.**

**to go backward**

**to go forward**

❸ **Press ④ (→).**

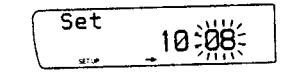



The minute digits flash.

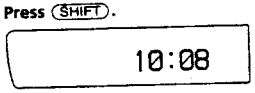
❹ **Set the minute.**

**to go backward**

**to go forward**




**2 Press (SHIFT).**




The clock starts.

***Note***

*If the POWER SELECT switch on the bottom of the unit is set to the ⓑ position, turn the power on first, then set the clock. To turn the power on, press (SOURCE).*

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Getting Started

SECTION 1
GENERAL

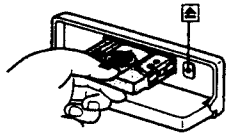


This section extracted from instruction manual.

# Cassette Player

## Listening to a tape

**1 Press (OPEN) and insert a cassette.**

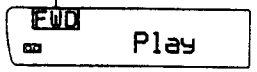


Playback starts automatically.

**2 Close the front panel.**

If a cassette is already inserted, press (SOURCE) until "FWD" or "REV" appears to start playback.

**The side facing up is being played.**




**The side facing down is being played.**

*Tips*

- *To change the tape transport direction, press (MODE) (◀II▶).*
- *"Metal" appears in the display when you insert a metal or CrO2 tape (Auto Metal function).*

| To | Press |
|---|---|
| Stop playback | (OFF) |
| Eject the cassette | (OPEN) then ⏏ |

### Fast-winding the tape

**During playback, press either side of (SEEK/AMS) for one second.**

**Fast-forward**

**Rewind**

*To start playback while fast-forwarding or rewinding, press (MODE) (◀II▶).*

### Locating the beginning of a track — Automatic Music Sensor (AMS)

You can skip up to nine tracks at one time.

**During playback, press either side of (SEEK/AMS) momentarily.**

**To locate succeeding tracks**

**To locate preceding tracks**

***Note***

*The AMS function may not work when:*

- *the blanks between tracks are shorter than four seconds.*
- *there is noise between tracks.*
- *there are long sections of low volume or quiet sections.*

### Changing the displayed item

Each time you press (DSPL), the item changes as follows:

**Tape playback → Clock → Frequency***

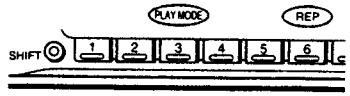
** While the AF/TA function is activated.*

## Playing tracks repeatedly

### — Repeat play

You can repeat play the current track.

**1 During playback press (SHIFT).**
Every time you press (SHIFT), only the items you can select light up.




**2 Press (6) (REP).**
Repeat play starts.

To go back to the normal playback mode, press (6) again.

**3 Press (SHIFT).**

## Playing a tape in various modes

You can play the tape in various modes:

- Intro (Intro Scan) lets you play the first 10 seconds of all the tracks.
- NR (Dolby NR) lets you select the Dolby* NR B or C**system.
- ATA (Automatic Tuner Activation) turns on the tuner automatically while fast-winding the tape.
- B.Skip (Blank Skip) skips blanks longer than eight seconds.

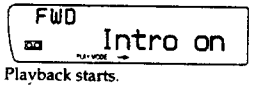
** Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.*

*** XR-C850RW/C850RDS only.*

**1 Press (SHIFT), then press (3) (PLAY MODE) repeatedly until the desired play mode appears.**
Each time you press (3), the item changes as follows:

**Intro → NR → ATA → B.Skip**

**2 Press (4) (→) to select the desired play mode setting (for example: on, NR B, or NR C).**




Playback starts.

**3 Press (SHIFT).**

To go back to the normal playback mode, select "off" in step 2 above.

# Radio

## Memorising stations automatically

### — Best Tuning Memory (BTM)

The unit selects the stations with the strongest signals and memorises them. You can store up to 10 stations on each band (FM 1, FM 2, MW and LW).

**Caution**

When tuning in stations while driving, use Best Tuning Memory to prevent accidents.

**1 Press (SOURCE) repeatedly to select the tuner.**
Each time you press (SOURCE), the source changes as follows:

**Tape ⟷ Tuner**

**2 Press (MODE) repeatedly to select the desired band.**
Each time you press (MODE), the band changes as follows:

**FM 1 → FM 2 → MW → LW**

**3 Press (SHIFT), then press (3) (PLAY MODE) repeatedly until "B.T.M" appears.**

**4 Press (4) (→) until "B.T.M" flashes.**
The unit stores stations in the order of their frequencies on the number buttons.
A beep sounds and the setting is stored.

**5 Press (SHIFT).**

***Notes***

- *The unit does not store stations with weak signals. If only a few stations are received, some number buttons remain empty.*
- *When a preset number is indicated in the display, the unit starts storing stations from the one currently displayed.*

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Cassette Player/Radio

## Memorising only the desired stations

You can store up to 10 stations on each band (20 for FM 1 and FM 2, 10 for MW or LW) in the order of your choice.

**1 Press (SOURCE) repeatedly to select the tuner.**

**2 Press (MODE) repeatedly to select the desired band.**

**3 Press either side of (SEEK/AMS) to tune in the station you want to store on the number button.**

**4 Keep the desired number button (1 to 10) pressed until "MEM" appears in the display.**

The number button indication appears in the display.

***Note***

*If you try to store another station on the same number button, the previously stored station will be erased.*

## Receiving the memorised stations

**1 Press (SOURCE) repeatedly to select the tuner.**

**2 Press (MODE) repeatedly to select the desired band.**

**3 Press the number button (1 to 10) momentarily where the desired station is stored.**

### If you cannot tune in a preset station

**Press either side of (SEEK/AMS) momentarily to search for the station (automatic tuning).**
Scanning stops when the unit receives a station. Press either side of (SEEK/AMS) repeatedly until the desired station is received.

***Note***

*If the automatic tuning stops too frequently, press (SHIFT), then press 3 (PLAY MODE) repeatedly until "Local" (local seek mode) appears. Then press 4 (→) to select "Local on." Press (SHIFT).*
*Only the stations with relatively strong signals will be tuned in.*

***Tip***

*If you know the frequency of the station you want to listen to, press and hold down either side of (SEEK/AMS) for a few seconds until the desired frequency appears (manual tuning).*

### If FM stereo reception is poor — Monaural Mode

**1 Press (SHIFT), then press 3 (PLAY MODE) repeatedly until "Mono" appears.**

**2 Press 4 (→) repeatedly until "Mono on" appears.**
The sound improves, but becomes monaural ("ST" disappears).

**3 Press (SHIFT).**
To go back to the normal mode, select "Mono off" in step 2 above.

### Changing the displayed item

Each time you press (DSPL), the item changes as follows:

Station name ⟷ Clock

# RDS

## Overview of the RDS function

The Radio Data System (RDS) is a broadcasting service that allows FM stations to send additional digital information along with the regular radio programme signal. Your car stereo offers you a variety of services. Here are just a few: re-tuning the same programme automatically, listening to traffic announcements and locating a station by programme type.

***Notes***

- *Depending on the country or region, not all of the RDS functions are available.*
- *RDS may not work properly if the signal strength is weak or if the station you are tuned to is not transmitting RDS data.*

## Displaying the station name

The name of the station currently received lights up in the display.

**Select an FM station.**
When you tune in an FM station that transmits RDS data, the station name appears in the display.

***Note***

*The "*" indication means that an RDS station is being received.*

### Changing the displayed item

Each time you press (DSPL), the item changes as follows:

→ Frequency → Clock → Station name →

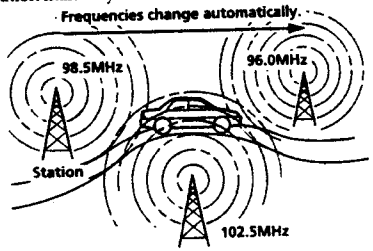
***Note***

*"NO Name" appears if the received station does not transmit RDS data.*

## Re-tuning the same programme automatically

### — Alternative Frequencies (AF)

The Alternative Frequencies (AF) function automatically selects and re-tunes the station with the strongest signal in a network. By using this function, you can continuously listen to the same programme during a long-distance drive without having to re-tune the station manually.




**1 Select an FM station.**

**2 Press (AF/TA) repeatedly until "AF on" appears.**
The unit starts searching for an alternative station with a stronger signal in the same network.

***Note***

*When there is no alternative station in the area and you do not need to search for an alternative station, turn the AF function off by pressing (AF/TA) repeatedly until "AF TA off" appears.*

### Changing the displayed item

Each time you press (AF/TA), the item changes as follows:

→ AF on → TA on → AF TA on* →
AF TA off ←

* *Select this to turn on both the AF and TA functions.*

***Notes***

- *"NO AF" and the station name flash alternately, if the unit cannot find an alternative station in the network.*
- *If the station name starts flashing after selecting a station with the AF function on, this indicates that no alternative frequency is available. Press (SEEK/AMS) while the station name is flashing (within eight seconds). The unit starts searching for another frequency with the same PI (Programme Identification) data ("PI seek" appears and no sound is heard). If the unit cannot find another frequency, "NO PI" appears, and the unit returns to the originally selected frequency.*

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Radio/RDS

### Listening to a regional programme

The "REG on" (regional on) function lets you stay tuned to a regional programme without being switched to another regional station. (Note that you must turn the AF function on.) The unit is factory preset to "REG on," but if you want to turn off the function, do the following.

**1 Press (SHIFT), then press (3) (PLAY MODE) repeatedly until "REG" appears.**

**2 Press (4) (→) repeatedly until "REG off" appears.**

**3 Press (SHIFT).**
Note that selecting "REG off" might cause the unit to switch to another regional station within the same network.

To go back to the regional on setting, select "REG on" in step 2 above.

***Note***
*This function does not work in the United Kingdom and in some other areas.*

### Local link function (United Kingdom only)

The Local Link function lets you select other local stations in the area, even though they are not stored on your number buttons.

**1 Press a number button that has a local station stored on it.**

**2 Within five seconds, press the number button of the local station again.**

**3 Repeat this procedure until the desired local station is received.**

## Listening to traffic announcements

The Traffic Announcement (TA) and Traffic Programme (TP) data let you automatically tune in an FM station that is broadcasting traffic announcements even though you are listening to other programme sources.

**Press (AF/TA) repeatedly until "TA on" or "AF TA on" appears.**
The unit starts searching for traffic information stations. "TP" appears in the display when the unit finds a station broadcasting traffic announcements. When the traffic announcement starts, "TA" flashes. The flashing stops when the traffic announcement is over.

***Tip***
*If the traffic announcement starts while you are listening to another programme source, the unit automatically switches to the announcement and goes back to the original source when the announcement is over.*

***Notes***
- *"NO TP" flashes for five seconds if the received station does not broadcast traffic announcements. Then, the unit starts searching for a station that broadcasts traffic announcements.*
- *When "EON" appears with "TP" in the display, the current station makes use of traffic announcements broadcast by other stations in the same network.*

### To cancel the current traffic announcement

**Press (AF/TA) momentarily.**
To cancel all traffic announcements, turn off the function by pressing (AF/TA) until "AF TA off" appears.

### Presetting the volume of traffic announcements

You can preset the volume level of the traffic announcements beforehand so you won't miss the announcement. When a traffic announcement starts, the volume will be automatically adjusted to the preset level.

**1 Select the desired volume level.**

**2 Press (AF/TA) for two seconds.**
"TA" appears and the setting is stored.

### Receiving emergency announcements

If an emergency announcement comes in while you are listening to the radio, the programme will be automatically switched to the announcement. If you are listening to a source other than the radio, the emergency announcements will be heard if you set AF or TA to on. The unit will then automatically switch to these announcements no matter what you are listening to at the time.

## Presetting the RDS stations with the AF and TA data

When you preset the RDS stations, the unit stores each station's data as well as its frequency, so you don't have to turn on the AF or TA function every time you tune in the preset station. You can select a different setting (AF, TA, or both) for each preset station, or the same setting for all preset stations.

### Presetting the same setting for all preset stations

**1 Select an FM band.**

**2 Press (AF/TA) repeatedly to select either "AF on," "TA on" or "AF TA on" (for both AF and TA functions).**
Note that selecting "AF TA off" stores not only RDS stations, but also non-RDS stations.

**3 Press (SHIFT), then press (3) (PLAY MODE) repeatedly until "B.T.M" appears.**

**4 Press (4) (→) until "B.T.M" flashes.**

**5 Press (SHIFT).**

### Presetting different settings for each preset station

**1 Select an FM band, and tune in the desired station.**

**2 Press (AF/TA) repeatedly to select either "AF ON," "TA ON" or "AF TA ON" (for both AF and TA functions).**

**3 Press the desired number button for two seconds until "MEM" appears.**
Repeat from step 1 for presetting other stations.

***Tip***
*If you want to change the preset AF and/or TA setting after you tune in the preset station, you can do so by turning on/off the AF or TA function.*

## Recording the traffic announcements

### —Traffic Information Replay (TIR)

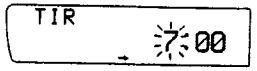
You can listen to the latest traffic announcements by recording them. The unit automatically records and stores up to eight traffic announcements. If the recording exceeds eight minutes (XR-C850RW/C850RDS), or four minutes (XR-C750RDS), the recorded announcements are updated, so you can always hear the latest information.
The TIR function turns on the unit automatically and records the traffic announcements for up to two hours before and after a preset time.

### Presetting the time and the station

**1 Press (TIR) for two seconds until "TIR" lights up in the display.**

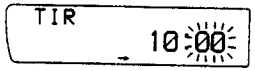
**2 Press (4) (→) repeatedly until "TIR on" appears.**

**3 Press (TIR) repeatedly until the time indication appears.**

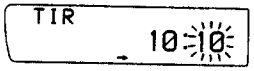



❶ Set the hour by rotating the dial.

❷ Press (4) (→) until the minute digits flash.




❸ Set the minute by rotating the dial.




**4 Press (TIR).**

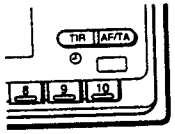
**5 Select the desired station by pressing the preset number button or either side of (SEEK/AMS).**





continue to next page →

**6 Press (TIR) for two seconds to return to the original display.**
◴ lights up.




The unit turns on automatically and stands by for traffic announcements for four hours (two hours before and after the preset time).
If the preset station does not broadcast the traffic announcement while searching, the unit starts searching for other traffic programme (TP) stations.

### To cancel the TIR function

**Select "TIR off" in step 2 above.**

EN

*Tips*
- *While the unit is recording the traffic announcement, ◴ and "TA" flash.*
- *If the unit still cannot find a TP station, it starts a new search every five minutes until it finds one.*
- *If you pull out the ignition key while the TIR function is on, "TIR on" and ◴ flash a few times.*

*Notes*
- *The unit also stands by for traffic announcements for two hours after you turn off the engine, as long as the TIR function is on.*
- *If you have a power aerial, it automatically extends every time the unit searches for a traffic programme station. If you have a manual aerial, make sure that the aerial is fully extended.*
- *If you do not use your car for about ten days, the TIR function will turn off automatically to avoid battery wear, even if the TIR function is on.*

### Playing back the recorded traffic announcements

When there are recorded traffic announcements you have not listened to yet, ◴ flashes.

**1 Press (TIR).**
The latest traffic announcement is played back. To listen to the previous ones, press (TIR) or the + side of (SEEK/AMS).
To replay the announcements, press the – side of (SEEK/AMS).
"NO Data" appears if no traffic announcements were recorded.

**2 Press (TIR) to go back to the original programme.**



## Locating a station by programme type

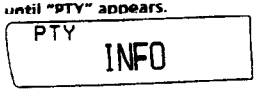
You can locate the station you want by selecting one of the programme types shown below.

*Note*
*If you are in a country or regions where EON data is not transmitted, you can use this function only for the stations you have tuned in once.*

| Programme types | Display |
|---|---|
| News | NEWS |
| Current Affairs | AFFAIRS |
| Information | INFO |
| Sports | SPORT |
| Education | EDUCATE |
| Drama | DRAMA |
| Culture | CULTURE |
| Science | SCIENCE |
| Varied | VARIED |
| Popular Music | POP M |
| Rock Music | ROCK M |
| Middle of the Road Music | M.O.R. M |
| Light Classical | LIGHT M |
| Classical | CLASSICS |
| Other Music Type | OTHER M |
| Weather | WEATHER |
| Finance | FINANCE |
| Children's programmes | CHILDREN |
| Social Affairs | SOCIAL A |
| Religion | RELIGION |
| Phone In | PHONE IN |
| Travel | TRAVEL |
| Leisure | LEISURE |
| Jazz Music | JAZZ |
| Country Music | COUNTRY |
| National Music | NATION M |
| Oldies Music | OLDIES |
| Folk Music | FOLK M |
| Documentary | DOCUMENT |
| Not specified | NONE |

*Note*
*You can not use this function in some countries where no PTY (Programme Type selection) data is available.*

**1 Press (PTY/LIST) during FM reception until "PTY" appears.**




The current programme type name appears if the station is transmitting the PTY data. "- - - -" appears if the received station is not an RDS station, or if the RDS data has not been received.

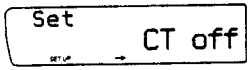
**2 Press (PTY/LIST) repeatedly until the desired programme type appears.**
The programme types appear in the order shown in the above table. Note that you cannot select "NONE" (Not specified) for searching.

**3 Press either side of (SEEK/AMS).**
The unit starts searching for a station broadcasting the selected programme type. When the unit finds the programme, the programme type appears again for five seconds. "NO" and the programme type flash for five seconds if the unit cannot find the programme type. It then returns to the previous station.

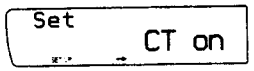
## Setting the clock automatically

The CT (Clock Time) data from the RDS transmission sets the clock automatically.

**1 Press (SHIFT), then press (2) (SET UP) repeatedly until "CT" appears.**




**2 Press (4) (→) repeatedly until "CT on" appears.**
The clock is set.




**3 Press (SHIFT) to return to the normal display.**

### To cancel the CT function

**Select "CT off" in step 2 above.**

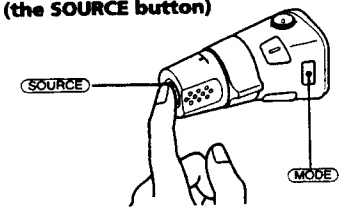
*Notes*
- *The CT function may not work even though an RDS station is being received.*
- *There might be a difference between the time set by the CT function and the actual time.*

# Other Functions

## Using the rotary remote

The rotary remote works by pressing buttons and/or rotating controls.
You can control the optional CD and MD changer with the rotary remote.

### By pressing the button (the SOURCE button)

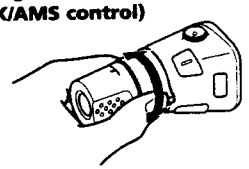



**Each time you press (SOURCE), the source changes as follows:**
**Tuner → CD → MD → Tape**

**Pressing (MODE) changes the operation in the following ways**
- the tape transport direction
- the band: FM1 → FM2 → MW → LW
- the CD changer: CD1 → CD2 → ....
- the MD changer: MD1 → MD2 → ....

*Tip*
*You can turn on this unit by pressing (SOURCE) on the rotary remote.*

### By rotating the control (the SEEK/AMS control)



**Rotate the control momentarily and release it to:**
- Locate the beginnings of the tracks on the tape. Rotate and hold the control, and release it to fast-wind the tape. To playback, rotate and hold the control again, and release it.
- Locate a specific track on a disc. Rotate and hold the control until you locate the specific point in a track, then release it to start playback.

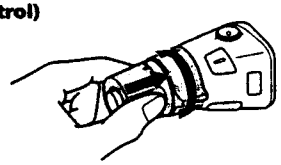
**continue to next page →**

EN

RDS/Other Functions

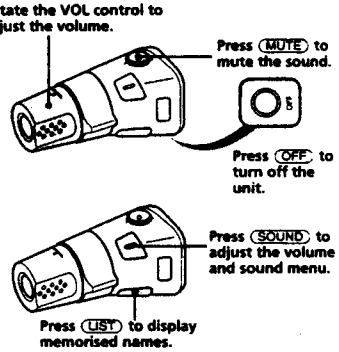
• Tune in stations automatically. Rotate and hold the control to tune in the specific station.

**By rotating the control while pushing in (the PRESET/DISC control)**



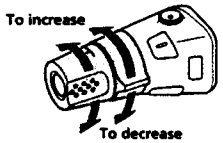
**Push in and rotate the control to:**
- Receive the stations memorised on the preset buttons.
- Change the disc.

**Other operations**

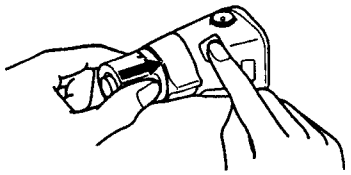

Rotate the VOL control to adjust the volume.
Press (MUTE) to mute the sound.
Press (OFF) to turn off the unit.
Press (SOUND) to adjust the volume and sound menu.
Press (LIST) to display memorised names.

**Changing the operative direction**

The operative direction of controls is factory preset as in the illustration below.




If you need to mount the rotary remote on the right of the steering column, you can reverse the operative direction of the controls.



**Press (DSPL) two seconds while pushing the VOL control.**

*Tip*

*You can change the operative direction of controls with the unit, refer to "Changing the sound and display settings" (page 15).*

## Adjusting the sound characteristics

You can adjust the subwoofer volume*, bass, treble, balance and fader.
Each source can store the sub output, bass and treble level respectively.

**1 Select the item you want to adjust by pressing (SOUND) repeatedly.**

**VOL (volume) → SUB* (subwoofer volume) → BAS (bass) → TRE (treble) → BAL (balance) → FAD (fader)**

* *XR-C850RW/C850RDS only.*

**2 Adjust the selected item by rotating the dial.**

Adjust within three seconds after selection. (After three seconds, the dial works as the volume control dial.)

## Muting the sound

The unit decreases the volume automatically when a telephone call is received (Telephone-mute function).

## Changing the sound and display settings

You can set:
- Clock (page 5)
- CT (Clock Time) (page 13)
- D. Info (Dual Information) to display the clock and the play mode at the same time (ON), or to display the information alternately (OFF).
- Amber/Green to change the illumination colour to amber or green.
- Dimmer to change the brightness of the display.
  — Select "Auto" to dim the display only when you turn the lights on.
  — Select "on" to dim the display.
- Contrast to adjust the contrast if the indications in the display are not recognizable because of the unit's installed position.
- Beep to turn on or off the beeps.
- RM (Rotary Remote) to change the operative direction of the controls of the rotary remote.
  — Select "norm" to use the rotary remote in the factory preset position.
  — Select "rev" when you mount the rotary remote on the right side of the steering column.
- Loud (Loudness) to enjoy bass and treble even at low volume. The bass and treble will be reinforced.
- LPF (Low Pass Filter)
- A. Scrl (page 16)
- Disc MEMO/TEXT name (Disc memo/CD-TEXT name) to set the priority display item when you connect an optional CD changer with the CD-TEXT and disc memo function.

*Note*

*The displayed item will differ depending on the source.*

**1 Press (SHIFT), then press (2) (SET UP).**

**2 Press (2) (SET UP) repeatedly until the desired setting mode appears.**

Each time you press (2) (SET UP), the item changes as follows:

**Clock → CT → D.Info → Amber/Green → Dimmer → Contrast → Beep → RM → Loud → LPF → A.Scrl → Disc MEMO/TEXT name**

**3 Press (4) (→) to select the desired setting (for example: "on" or "off").**

For the "Contrast" setting, pressing (4) (→) makes the contrast higher, and pressing (1) (←) makes the contrast lower.

**4 Press (SHIFT).**

When the mode setting is complete, the normal playback mode appears.

## Adjusting the frequency of the subwoofer(s)

**(XR-C850RW/C850RDS only)**

To match the characteristics of the connected subwoofer(s), you can cut out the unwanted high and middle frequency signals entering the subwoofer(s). By setting the cut-off frequency, the subwoofer(s) will output only low frequency signals so you can get a clearer sound image.

**1 Press (SOURCE) to select a source (radio, tape, CD, or MD).**

**2 Press (SHIFT), then press (2) (SET UP) repeatedly until "LPF" appears.**

**3 Press (4) (→) repeatedly to select desired setting.**

Each time you press (4) (→), the cut-off frequency in the display changes as follows:

**LPF 120 Hz → LPF 80 Hz → LPF off**

If you press (1) (←), the items appear in reverse order.

**4 Press (SHIFT).**

When the frequency setting is complete, the display goes back to the normal playback mode.

With Optional Equipment

# CD/MD Changer

If you connect an optional CD changer with the CD-TEXT function, the CD-TEXT information will appear in the display when you playback a CD-TEXT disc.

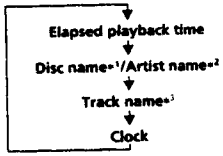
## Playing a CD or MD

**1 Press (SOURCE) repeatedly to select the CD or MD.**

**2 Press (MODE) until the desired changer indication appears in the display.**
CD/MD playback starts.

### Changing the displayed item

Each time you press (DSPL) during CD, CD-TEXT or MD playback, the item changes as follows:




*1 *If you have not labeled the CD or there is no disc name prerecorded on the MD, "NO D. Name" appears in the display.*
*2 *If you play a CD-TEXT disc, the artist name appears in the display after the disc name. (Only for CD-TEXT discs with the artist name)*
*3 *If the track name of a CD-TEXT disc or MD is not prerecorded, "NO T. Name" appears in the display.*

You can label a personalized name for CDs and CD-TEXT discs with the disc memo function, refer to "Labeling a CD" (page 19).

***Tip***
*If the name of the CD-TEXT disc or MD is too long, you can scroll it across the display by pressing (SHIFT), then (1) (←).*

### Automatically scrolling a disc name — Auto Scroll

If the disc name/artist name or track name on a CD-TEXT or MD disc exceeds 10 characters and the Auto Scroll function is on, automatically scrolls on the display as follows.

- *The disc name appears when the disc has changed (if the disc name is selected).*
- *The track name appears when the track has changed (if the track name is selected).*
- *The disc or track name appears depending on the setting when you press (SOURCE) to select an MD or CD-TEXT disc.*

If you press (DSPL) to change the display item, the disc or track name of the MD or CD-TEXT disc is scrolled automatically whether you set the function on or off.

**1 Press (SHIFT), then press (2) (SET UP) repeatedly until "A. Scrl" appears.**

**2 Press (4) (→) to select "A. Scrl on."**

**3 Press (SHIFT).**

To cancel Auto Scroll, select "A. Scrl off" in step 2 above.

***Note***
*For some CD-TEXT discs with extremely many characters, the following cases may happen:*
*- Some of the characters are not displayed.*
*- Auto Scroll does not work.*

### Displaying the recording date of the currently selected MD

**Press (DSPL) for two seconds during MD playback.**
The recording date of the track is displayed for about three seconds.

### Locating a specific track — Automatic Music Sensor (AMS)

**During playback, press either side of (SEEK/AMS) once for each track you wish to skip.**

**To locate succeeding tracks**

**To locate preceding tracks**

### Locating a specific point in a track — Manual Search

**During playback, press and hold either side of (SEEK/AMS). Release the button when you have found the desired point.**

**To search forward**

**To search backward**

### Locating a disc by disc number — Direct Disc Selection

**Press the number button that corresponds with the desired disc number.**
The desired disc in the currently selected changer begins playback.

## Scanning the tracks

**— Intro Scan**

You can play the first 10 seconds of all the tracks on the current disc.

**1 During playback, press (SHIFT), then press (3) (PLAY MODE) repeatedly until "Intro" appears.**

**2 Press (4) (→) repeatedly until "Intro on" appears.**
Intro Scan starts.

**3 Press (SHIFT).**

To go back to the normal playback mode, select "Intro off" in step 2 above.

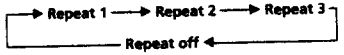
## Playing tracks repeatedly

**— Repeat Play**

You can select:
- Repeat 1 to repeat a track.
- Repeat 2 to repeat a disc.
- Repeat 3 to repeat all the discs in the current changer when you connect two or more changers.

**1 During playback, press (SHIFT), then press (6) (REP) repeatedly until "Repeat" appears.**

**2 Press (6) (REP) repeatedly until the desired setting appears.**




Repeat play starts.

**3 Press (SHIFT).**

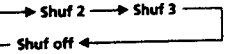
To go back to the normal playback mode, select "Repeat off" in step 2 above.

## Playing tracks in random order — Shuffle Play

You can select:
- Shuf 1 to play the tracks on the current disc in random order.
- Shuf 2 to play the tracks in the current changer in random order.
- Shuf 3 to play all the tracks in random order when you connect two or more changers.

**1 During playback, press (SHIFT), then press (7) (SHUF) repeatedly until "Shuf" appears.**

**2 Press (7) (SHUF) repeatedly until the desired setting appears.**




Shuffle play starts.

**3 Press (SHIFT).**

To go back to the normal playback mode, select "Shuf off" in step 2 above.

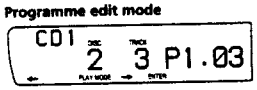
## Creating a programme

**— Programme Memory (CD/MD changer with programme memory function)**

You can play tracks in the order you want by making your own programme. You can make two programmes: Programme 1 and Programme 2. You can select up to 12 tracks for each programme. You can store the programmes in memory.

**1 Press (SHIFT), then press (3) (PLAY MODE) for two seconds.**

**Programme edit mode**




**"P1" shows Programme 1 is selected.**

If you have labeled the disc, the bank edit mode appears. Press (3) (PLAY MODE) to display "P1" above.

To select Programme 2, press (4) (→) repeatedly until "P2" appears.

**2 Select the track you want.**

**❶ Press (SOURCE) repeatedly to select the CD or MD.**

**❷ Press (MODE) repeatedly to select the changer.**

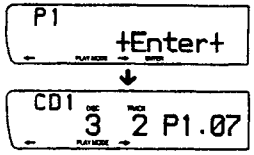
**❸ Press (SHIFT), then press the number button to select the disc.**

**❹ Press (SHIFT).**

**❺ Press either side of (SEEK/AMS) to select the track.**

**continue to next page →**

**3 Press ⑤ (ENTER) momentarily.**




**4 To continue entering tracks, repeat steps 2 and 3.**

**5 When you finish entering tracks, press ③ (PLAY MODE) for two seconds.**

**6 Press SHIFT.**

***Notes***

- *"*Wait*" appears in the display while the unit is reading the data, or when a disc has not been put into the unit.*
- *"*Mem full*" appears in the display when you try to enter more than 12 tracks into a programme.*

EN

## Playing the stored programme

Changing the disc order in the changer will not affect programme memory play.

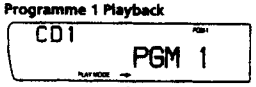
You can select:
- PGM 1 to play Programme 1.
- PGM 2 to play Programme 2.
- PGM 1+2 to play Programmes 1 and 2.

**1 Press SHIFT.**

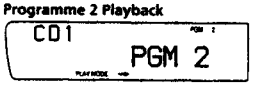
**2 Press ③ (PLAY MODE) repeatedly until "PGM" appears.**

**3 Press ④ (→) repeatedly until the desired programme appears.**
Programme play starts.

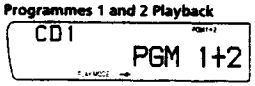
**Programme 1 Playback**




**Programme 2 Playback**




**Programmes 1 and 2 Playback**




**Normal Playback**

**4 Press SHIFT.**

To go back to the normal playback mode, select "PGM off" in step 3 above.

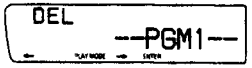
***Notes***

- *If you press a number button during programme memory play, programme memory play is interrupted, and playback of the selected disc starts.*
- *"NO Data" appears in the display if no track is stored in the programme.*
- *If a track stored into the programme memory is not in the disc magazine, the track will be skipped.*
- *When the disc magazine contains not a single track stored into the programme memory, or when the programme information has not been loaded yet, "Not Ready" appears.*

## Erasing the entire programme

**1 Press SHIFT, then press ③ (PLAY MODE) for two seconds.**
If you have labeled the disc, the bank edit mode appears. Press ③ (PLAY MODE) to display "P1" above.

**2 Press ① (←) repeatedly until "DEL" appears.**




To erase Programme 2, press ④ (→) repeatedly until "P2" appears.

**3 Press ⑤ (ENTER) for two seconds.**

The entire programme is erased.

**4 When you finish erasing programmes, press ③ (PLAY MODE) for two seconds.**

**5 Press SHIFT.**

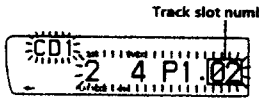
## Adding tracks to the programme

**1 Press SHIFT, then press ③ (PLAY MODE) for two seconds.**
If you have labeled the disc, the bank edit mode appears. Press ③ (PLAY MODE) to display "P1" above.

To select Programme 2, press ④ (→) repeatedly until "P2" appears.

**2 Press ① (←) or ④ (→) to select the track slot number where you want to insert a track.**

**Track slot number**




**3 Press either side of SEEK/AMS to select the track you want to insert.**

**4 Press ⑤ (ENTER) momentarily to enter the track.**
The current track in that slot number and the succeeding tracks shift down.
To continue inserting tracks, repeat steps 2 through 4.

***Note***

*Once all 12 slots have been filled, "*Mem full*" appears in the display, and you cannot insert tracks.*

**5 When you finish inserting tracks, press ③ (PLAY MODE) for two seconds.**

**6 Press SHIFT.**

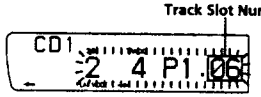
## Erasing the tracks in the programme

**1 Press SHIFT, then press ③ (PLAY MODE) for two seconds.**
If you have labeled the disc, the bank edit mode appears. Press ③ (PLAY MODE) to display "P1" above.

To select Programme 2, press ④ (→) repeatedly until "P2" appears.

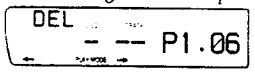
**2 Press ① (←) or ④ (→) to select the track you want to erase.**

**Track Slot Number**




**The track currently registered in slot 6 of Programme 1.**

**3 Press ⑤ (ENTER) for two seconds.**
When you erase a track from a slot number, the succeeding tracks shift up to fill the gap.




**4 To continue erasing tracks, repeat steps 2 and 3.**

**5 When you finish erasing tracks, press ③ (PLAY MODE) for two seconds.**

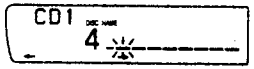
**6 Press SHIFT.**

# Labeling a CD

**— Disc Memo/Custom File (CD changer with custom file function)**

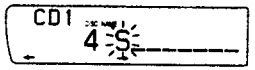
You can label each disc with a personalized name. You can enter up to 8 characters for a disc. If you label a CD, you can locate a disc by name (page 20) and select the specific tracks for playback (page 20).

**1 Play the CD and press PTY/LIST for two seconds.**



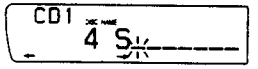

**2 Enter the characters.**

**❶ Rotate the dial clockwise direction to select the desired characters.**
**(A → B → C → ··· Z → 0 → 1 → 2 → ··· 9 → + → - → * → / → \ → > → < → . → _)**




If you rotate the dial counterclockwise, the characters appear in reverse order.
If you want to put a blank space between characters, select "_" (underbar).

**❷ Press ④ (→) after locating the desired character.**
The flashing cursor moves to the next space.




If you press ① (←), the flashing cursor moves to the left.

**❸ Repeat steps ❶ and ❷ to enter the entire name.**

**3 To return to the normal CD playback mode, press PTY/LIST for two seconds.**

***Tip***

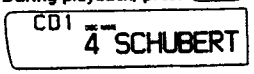
*To erase/correct a name, enter "_" (under-bar) for each character.*

ÈN

CD/MD Changer

### Displaying the disc memo

**During playback, press (DSPL).**




Each time you press (DSPL) during CD playback, the item changes as follows:

*1 *When you connect an optional CD changer with the CD-TEXT function, the personalized label or the CD-TEXT disc name appears. See below to change the display.*
*- To change the displayed item press (4) (→).*
*- To change the display using Display settings (page 15).*

*The display item will change depending on the setting as follows.*

| Type of disc | Priority display setting | Actual display |
|---|---|---|
| A | D.MEMO | Disc memo |
| | CD-TEXT | CD-TEXT information |
| B | D.MEMO | Disc memo |
| | CD-TEXT | |
| C | D.MEMO | CD-TEXT information |
| | CD-TEXT | |
| D | D.MEMO | NO D. Name |
| | CD-TEXT | |

A: CD-TEXT disc with disc memo
B: Normal CD with disc memo
C: CD-TEXT disc without disc memo
D: Normal CD without disc memo

*2 *If you connect an optional CD changer with the CD-TEXT function, the CD-TEXT information will appear on the display when you playback a CD-TEXT disc.*

### Erasing the disc memo

**1 Press (SOURCE) repeatedly to select CD.**

**2 Press (MODE) repeatedly to select the CD changer.**

**3 Press (PTY/LIST) for two seconds.**

**4 Press (DSPL) for two seconds.**
"Delete" and the disc memo appear in the display.

**5 Rotate the dial to select the name you want to erase.**

**6 Press (5) (ENTER) for two seconds.**
The name is erased.
Repeat steps 5 and 6 if you want to erase other names.

**7 Press (PTY/LIST) for two seconds.**
The unit returns to the normal CD playback mode.

## Locating a disc by name

**— List-up (CD changer with custom file function or MD changer)**

You can use this function for the discs that have been assigned a personalized name. For more information on disc names, refer to "Labeling a CD" (page 19).

**1 Press (PTY/LIST) momentarily.**
The names assigned to the disc currently playing and the next disc to be played appear in the display. The name assigned to currently playing disc is flashing.

If you add disc memo labels to a CD-TEXT disc, the display setting you make will determine which information is displayed. If the disc has only one set of information (either CD-TEXT or disc memo labels ), that information will be displayed regardless of the display setting you make.

**2 Press (PTY/LIST) repeatedly until you find the desired disc.**

**3 Press (5) (ENTER) to play back the disc.**

***Notes***
- *To go back to the normal display, press (DSPL). Once a disc name has been displayed for five seconds, the display goes back to the normal playback mode.*
- *The track names are not displayed during MD playback.*
- *If there are no discs in the magazine, "NO Disc" appears in the display.*
- *If a disc has not been assigned a custom file, "********" appears in the display.*
- *If the disc information has not been read by the unit, "?" appears in the display. To load the disc, first press a number button, then choose a disc that has not been loaded.*
- *The information appears only in upper cases. There are also some letters which cannot be displayed (during MD playback).*

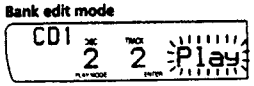
## Selecting the specific tracks for playback

**— Bank/Custom File**
**(CD changer with custom file function)**

If you label the disc, you can set the unit to skip tracks and play only the tracks you want.

**1 Start playing the disc and press (SHIFT). Then press (3) (PLAY MODE) for two seconds.**

**Bank edit mode**




***Note***
*If you have not labeled the disc, the bank edit mode does not appear and the program edit mode appears. To go back to the normal playback mode, press (3) (PLAY MODE) for two seconds.*

**2 Press either side of (SEEK/AMS) to select the track number you want to skip and press (5) (ENTER).**

The indication changes from "Play" to "Skip." If you want to return to "Play," press (5) (ENTER) again.

**3 Repeat step 2 to set the "Play" or "Skip" mode on all the tracks.**

**4 Press (3) (PLAY MODE) for two seconds.**

**5 Press (SHIFT).**

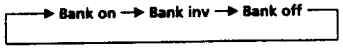
***Notes***
- *You can set the "Play" and "Skip" modes on up to 24 tracks.*
- *You cannot set the "Skip" mode on all the tracks.*

### Playing the specific tracks only

You can select:
- Bank on to play the tracks with the "Play" setting.
- Bank inv (inverse) to play the tracks with the "Skip" setting.

**1 During playback, press (SHIFT), then press (3) (PLAY MODE) repeatedly until "Bank" appears.**

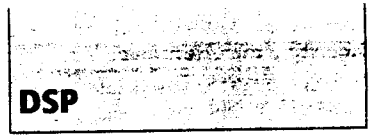
**2 Press (4) (→) repeatedly until the desired setting appears.**



Playback starts from the track following the current one.

**3 Press (SHIFT).**

To go back to the normal playback mode, select "Bank off" in step 2 above.




### With the optional XDP-U50D connected (XR-C850RW/C850RDS only)

The optional XDP-U50D lets you add some effects to the sound field of the currently selected source.

## Selecting a surround menu

You can select a desired surround menu to best fit the audio source. The following menu can simulate different sound fields and enhance the sound so you can feel as if you are at a live concert.

**Surround menu**

| | |
|---|---|
| **HALL** | Concert hall |
| **JAZZ** | Jazz club |
| **DISCO** | Disco with thick walls |
| **THEATER** | Movie theatre |
| **PARK** | Big open space |
| **LIVE** | Live concert |
| **OPERA** | Opera house |
| **CHURCH** | Church/chapel with a lot of reverberation |
| **STADIUM** | Open-air concert in a stadium |
| **CELLAR** | Cellar with a lot of reverberation |
| **DEFEAT** | Normal sound without any DSP effects |

**1 Press (SOURCE) to select a source (radio, tape, CD, or MD).**

**2 Press (SOUND) repeatedly until "SUR" appears.**

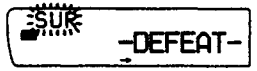
**3 Rotate the dial to select the desired surround menu.**
The surround menu appears in the order shown above.

After three seconds, the display goes back to the normal playback mode.

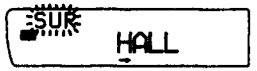
### Adjusting the effect level

**1** Press (SOURCE) to select a source (radio, tape, CD, or MD).

**2** Press (SOUND) for two seconds.




**3** Rotate the dial to select the desired surround menu.




**4** Press ④ (→).

**5** Rotate the dial to adjust the level.
You can adjust the level from 0 to 100%. Increase the level to enjoy more enhanced effects.

**6** Press (SOUND) for two seconds.

## Storing the surround effect onto the CDs

**— Digital Signal Processor (DSP) Custom File (CD changer with custom file function)**

Once you have registered the desired surround menu onto the discs, you can enjoy the same surround menu every time you play them. (Only when you have labeled the disc with the Custom File function.)

**1** Press (PTY/LIST) for two seconds.

**2** Press (PTY/LIST) until the surround menu appears.

DSP Custom File mode

**3** Rotate the dial to select the desired surround menu.

**4** Press (PTY/LIST) for two seconds.
When the effect setting complete, the display goes back to the normal playback mode.

### Playing the disc with the stored surround menu

**1** Press (SHIFT), then press ③ (PLAY MODE) repeatedly until "D.File" appears.

**2** Press ④ (→) to select "D. File on."
After five seconds, the display goes back to the normal playback mode.

**3** Press (SHIFT).

To cancel playback of the disc with a stored surround menu, select "D. File off" in step 2 above.

### Changing the stored surround effect

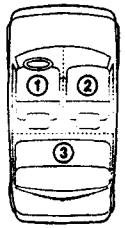
Play the disc whose surround effect you want to change, and follow the steps in "Storing the surround effect for CDs."

### Erasing the stored surround effect

Select "DEFEAT" in step 3 of "Storing the surround effect onto CDs."

## Selecting the listening position

You can set the time for the sound to reach the listeners from the speakers.
The unit can simulate a natural sound field so that you can feel as if you are in the centre of the sound field wherever you sit in the car.




| Display window | Centre of sound field |
|---|---|
| LP1 All | Normal setting (① + ② + ③) |
| LP2 Front | Front part (① - ②) |
| LP3 Front R | Right front (②) |
| LP4 Front L | Left front (①) |
| LP5 Rear | Rear part (③) |

**1** Press (SOUND) momentarily until "LP1" appears.

**2** Rotate the dial to select the desired listening position.
The listening positions appear in the order shown above.

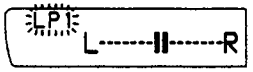
After three seconds, the display goes back to the normal playback mode.

### Adjusting the listening position

**1** Press (SOUND) for two seconds.

**2** Rotate the dial to select the desired listening position.

**3** Press ④ (→).

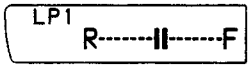



**4** Rotate the dial to adjust the centre of the sound field to the left or right. Then set the centre of the sound field.

Centre moves to the L (left)

Centre moves to the R (right)

**5** Press ④ (→).




**6** Rotate the dial to adjust the centre of the sound field to the front or rear.

Centre moves to the R (rear)

Centre moves to the F (front)

**7** Press (SOUND) for two seconds.
When the effect setting is complete, the normal playback mode display appears.

## Adjusting the fader (FAD)

Normally, with the DSP mode on, the volume of the output sound from the rear speakers is lowered automatically to improve the efficiency of the listening position setting. If you want to raise the rear speaker volume, adjust the fader.

**1** Follow steps 1 to 3 of "Selecting a surround menu" (page 21).

**2** Press (SOUND) momentarily until "FAD" appears.

**3** Rotate the dial to adjust the fader.

Decreases the front speaker volume

Increases front speaker volume

After three seconds, the display goes back to the normal playback mode.

## Adjusting the volume of the subwoofer(s)

**1** Press (SOURCE) to select a source (radio, tape, CD, or MD).

**2** Press (SOUND) repeatedly until "SUB" appears.

**3** Rotate the dial to adjust the volume.
After three seconds, the display goes back to the normal playback mode.

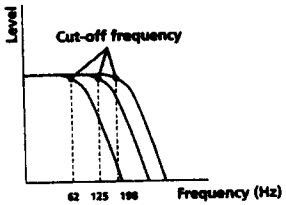
EN

EN DSP

– 12 –

### Adjusting the frequency of the subwoofer(s)

To match the characteristics of the connected subwoofer(s), you can cut out the unwanted high and middle frequency signals entering the subwoofer(s). By setting the cut-off frequency (see the diagram below), the subwoofer(s) will output only low frequency signals so you can get a clearer sound image.




**1** Press (SOURCE) to select a source (radio, tape, CD, or MD).

**2** Press (SOUND) for two seconds.

**3** Press (SOUND) repeatedly until "SUB" appears.

**4** Rotate the dial to select the desired cut-off frequency.
The cut-off frequency in the display changes.

**5** Press (SOUND) for two seconds.
When the frequency setting is complete, the display goes back to the normal playback mode.

## Adjusting the volume of the bass and treble

You can adjust the volume of the bass and treble to best fit the acoustic characteristics inside your car.

**1** Press (SOURCE) to select a source (radio, tape, CD, or MD).

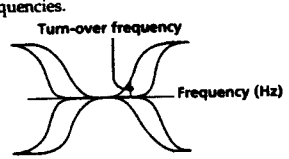
**2** Press (SOUND) repeatedly until "BAS" or "TRE" appears.

**3** Rotate the dial to adjust the volume.

After three seconds, the display goes back to the normal playback mode.

### Adjusting the turn-over frequency

You can adjust the bass and treble turn-over frequencies.

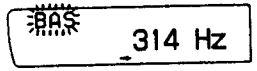



**1** Press (SOURCE) to select a source (radio, tape, CD, or MD).

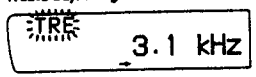
**2** Press (SOUND) for two seconds.

**3** Press (SOUND) repeatedly until "BAS" or "TRE" appears.

Bass adjusting mode




Treble adjusting mode




**4** Rotate the dial to select the turn-over frequency.
The turn-over frequency changes as follows:

Bass:
198 Hz → 250 Hz → 314 Hz* → 396 Hz

Treble:
2.0 kHz → 3.1 kHz* → 4.0 kHz → 5.0 kHz

* *Factory-set frequency*

**5** Press (SOUND) for two seconds.
The display goes back to the normal playback mode.

## Listening to each programme source in its registered surround menu

**— Source Sound Memory (SSM)**

You can always listen to the same source with the same surround menu even after changing the programme source or turning the unit off and on again.

## Changing the line output level

You can change the line output level when you want to adjust the level of the spectrum analyser or when the sound is distorted.

**1** Press (SHIFT), then press (2) (SET UP) until "L.out" appears.

**2** Press (4) (→) to select the desired setting (–10 dB or –16 dB).

**3** Press (SHIFT).

# Connections

## Caution

- This unit is designed for negative ground 12 V DC operation only.
- Connect the power connecting cord ⑨ to the unit and speakers before connecting it to the auxiliary power connector.
- **Run all ground wires to a common ground point.**
- Connect the yellow cord to a free car circuit rated higher than the unit's fuse rating. If you connect this unit in series with other stereo components, the car circuit they are connected to must be rated higher than the sum of the individual components' fuse rating. If there are no car circuits rated as high as the unit's fuse rating, connect the unit directly to the battery. If no car circuits are available for connecting this unit, connect the unit to a car circuit rated higher than the unit's fuse rating in such a way that if the unit blows its fuse, no other circuits will be cut off.

## If your car has no accessory position on the ignition key switch — POWER SELECT switch

The illumination on the front panel is factory set to be turned on even while the unit is not in use. However, this setting may cause some car battery wear if **your car has no accessory position on the ignition key switch.** To avoid this battery wear, **set the POWER SELECT switch located on the bottom of the unit to the ⓑ position, then press the reset button.** The illumination is reset to stay off while the unit is not in use.

***Note***

*The caution alarm for the front panel and TIR indicator is not activated when the POWER SELECT switch is set to the ⓑ position.*

## When using the SUB W. OUT/LINE OUT terminal

### — LINE-OUT/IN SELECT Switch

With the LINE-OUT/IN SELECT switch on the bottom of the unit, you can change the SUB W. OUT/LINE OUT terminal to work as SUB WOOFER VOLUME OUT or as LINE OUT terminal.

- When you want to use the SUB W. OUT/LINE OUT terminal as SUB WOOFER VOLUME OUT terminal and connect an active subwoofer to it, set the switch to ①.
- When you want to use the SUB W. OUT/LINE OUT terminal as LINE OUT terminal and connect a digital signal processor or graphic equalizer to it, set the switch to ❷. In this case, the FRONT LINE OUT terminal and REAR LINE OUT terminal will serve as FRONT LINE IN terminal and REAR LINE IN terminal, respectively.

# Conexiones

## Precauciones

- Esta unidad ha sido diseñada para alimentarse con 12 V CC, negativo a masa, solamente.
- Conecte el cable de conexión de alimentación ⑨ a la unidad y los altavoces antes de conectarlo al conector de alimentación auxiliar.
- **Conecte todos los conductores de puesta a masa a un punto común.**
- Conecte el cable amarillo a un circuito libre de automóvil de potencia nominal superior a la del fusible de la unidad. Si conecta esta unidad en serie con otros componentes estéreo, la potencia nominal del circuito del automóvil a los que dichos componentes estén conectados debe ser superior a la suma de la potencia nominal del fusible de los componentes. Si no existen circuitos de automóvil de potencia nominal igual a la del fusible de la unidad, conecte ésta directamente a la batería. Si no hay circuitos de automóvil disponibles para conectar esta unidad, conecte la misma a un circuito de automóvil de potencia nominal superior a la del fusible de la unidad de forma que no se desactiven otros circuitos si el fusible de dicha unidad se funde.

## Si el automóvil no dispone de posición para accesorios en la llave de encendido

### — Selector POWER SELECT

La iluminación del panel frontal ha sido ajustada en fábrica para que esté activada aunque la unidad no se encuentre en funcionamiento. Sin embargo, este ajuste puede provocar cierta descarga de la batería del automóvil **si éste no dispone de posición para accesorios en la llave de encendido.** Para evitar esto, **ponga el selector POWER SELECT, situado en la base de la unidad, en la posición ⓑ y, después, presione el botón de reposición.** La iluminación estará desactivada cuando la unidad no se encuentre en funcionamiento.

***Nota***

*La alarma de precaución del panel frontal y el indicador TIR no se activará cuando el selector POWER SELECT se encuentre en la posición ⓑ.*

## Si utiliza el terminal SUB W. OUT/LINE OUT — Selector LINE-OUT/IN SELECT

Con el selector LINE-OUT/IN SELECT de la base de la unidad, es posible cambiar el terminal SUB W. OUT/LINE OUT para que funcione como terminal SUB WOOFER VOLUME OUT o LINE OUT.

- Si desea utilizar el terminal SUB W.OUT/LINE OUT como terminal SUB WOOFER VOLUME OUT y conectarle un altavoz potenciador de graves activo, ajuste el selector en ①.
- Si desea utilizar el terminal SUB W.OUT/LINE OUT como terminal LINE OUT y conectarle un procesador digital de señales o un ecualizador gráfico, ajuste el selector en ❷. En este caso, los terminales FRONT LINE OUT y REAR LINE OUT funcionarán como terminales FRONT LINE IN y REAR LINE IN respectivamente.

# Anslutning

## Säkerhetsföreskrifter

- Denna bilstereo är endast avsedd för anslutning till ett negativt jordat, 12 V bilbatteri.
- Anslut strömkabeln ⑨ till enheten och högtalarna innan du ansluter den till den yttre strömanslutning.
- **Dra samtliga jordledningar till en och samma jordningspunkt.**
- Anslut den gula kabeln till en ledig bilkrets med en högre ampere än enhetens. Om du seriekopplar enheten till andra stereokomponenter måste den bilkrets de kopplas till ha en högre ampere än summan av de enskilda delarnas amperestyrka. Om det inte finns några bilkretsar med en så hög amperestyrka som enhetens ska du ansluta enheten direkt till batteriet. Om inga bilkretsar finns för anslutning till enheten ska du ansluta enheten till en bilkrets med en högra ampere än enhetens styrka så att inga andra säkringar går om enhetens säkring smälter.

## Montera bilstereon i en bil vars tändlås inte har något strömläge

### — Omkopplaren POWER SELECT

Innan bilstereon levererades från fabriken ställdes belysningen i teckenfönstret in så att den lyser också när bilstereon inte används. Detta kan emellertid orsaka urladdning av batteriet när du använder bilstereon **i en bil, vars tändlås saknar läget ACC (strömläge). Skjut omkopplaren POWER SELECT på bilstereons undersida till läge ⓑ, och tryck sedan på återställningsknappen** för att undvika att bilbatteriet laddas ur. Nu lyser inte längre belysningen i teckenfönstret när bilstereon inte används.

***Observera***

*Varningssignalen, som varnar om du inte har tagit loss frontpanelen, ljuder inte när omkopplaren POWER SELECT står i läge ⓑ.*

## Efter anslutning av en digital förförstärkare osv till bilstereon

### — Väljaren LINE-OUT/IN SELECT

Med väljaren LINE-OUT/IN SELECT längst ned på enheten kan du ändra på SUB W. OUT/LINE OUT-terminalen så att den fungerar som SUB WOOFER VOLUME OUT- eller som LINE OUT-terminal.

- Om du vill använda SUB W.OUT/LINE OUT-terminalen som SUB WOOFER VOLUME OUT-terminal och ansluta en aktiv subwoofer till den ska du ställa väljaren till ①.
- Om du vill använda SUB W.OUT/LINE OUT-terminalen som LINE OUT-terminal och ansluta en digital signalprocesser eller grafisk equalizer till den ska du ställa väljaren till ❷. I detta fall fungerar FRONT LINE OUT-terminalen och REAR LINE OUT-terminalen som FRONT LINE IN-terminal respektive REAR LINE IN-terminal.

# Ligações

## Advertência

- Este aparelho foi concebido para funcionar somente com corrente contínua de 12 V com massa negativa.
- Ligue o cabo de alimentação de corrente ⑨ ao aparelho e aos alifalantes antes de o ligar ao conector de corrente auxiliar.
- **Ligue todos os fios de terra num ponto de massa comum.**
- Ligue o cabo amarelo a um circuito eléctrico livre do automóvel, cuja tensão seja superior à dos fusíveis do aparelho. Se ligar este aparelho em série com outros componentes estéreo, a tensão do circuito eléctrico do automóvel onde os ligar tem de ser superior à soma das tensões dos fusíveis de todos os componentes individuais. Se não houver nenhum circuito eléctrico do automóvel com uma tensão tão elevada como a dos fusíveis do aparelho, ligue-o directamente à bateria. Se não estiver disponível nenhum circuito eléctrico do automóvel para ligação deste aparelho, ligue-o a um circuito eléctrico do automóvel com uma tensão superior à dos fusíveis do aparelho, de tal modo que, se o aparelho rebentar os fusíveis respectivos, nenhum outro circuito seja cortado.

## Se o seu automóvel não estiver equipado com uma chave de ignição com posição acessórios

### — Interruptor POWER SELECT

A iluminação do painel frontal é regulada na fábrica para se manter acesa, mesmo quando o aparelho não estiver ligado. No entanto, esta regulação pode provocar a descarga da bateria **se o aparelho for utilizado em automóveis sem chave de ignição com posição acessórios.** Para evitar a descarga da bateria, **regule o interruptor POWER SELECT, situado na base do aparelho, para a posição ⓑ. Em seguida, carregue no botão de reinicialização.** A iluminação é regulada para ficar apagada enquanto o aparelho estiver desligado.

***Nota***

*O alarme de advertência do painel frontal não é activado quando o interruptor POWER SELECT estiver regulado para a posição ⓑ.*

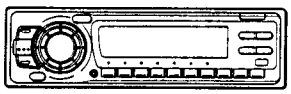
## Quando utilizar o terminal SUB W. OUT/LINE OUT

### — Interruptor LINE-OUT/IN SELECT

Com o interruptor LINE-OUT/IN SELECT existente na parte inferior do aparelho, pode mudar o terminal SUB W. OUT/LINE OUT para que funcione como terminal SUB WOOFER VOLUME OUT ou LINE OUT.

- Quando quiser utilizar o terminal SUB W.OUT/LINE OUT como SUB WOOFER VOLUME OUT e ligar um subwoofer activo, ajuste o interruptor para a posição ①.
- Quando quiser utilizar o terminal SUB W.OUT/LINE OUT como LINE OUT e ligar um processador de sinal digital ou um equalizador gráfico, ajuste o interruptor para a posição ❷. Neste caso, os terminais FRONT LINE OUT e REAR LINE OUT servirão como terminais FRONT LINE IN e REAR LINE IN, respectivamente.

**Change the position with a jeweler's screwdriver, etc.**
**Cambie la posición con un destornillador de relojero, etc.**
**Använd en skruvmejsel för finmekaniker eller ett liknande verktyg för att ändra på omkopplarläget.**
**Altere a posição do interruptor com uma chave de fendas de precisão, etc.**



*When you change the position of the switch, be sure to press the reset button after the connections are completed.*

***Notes on the control leads***

- *The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation), AF (Alternative Frequency), the TA (Traffic Announcement) or TIR (Traffic Information Replay) function.*
- *A power aerial without a relay box cannot be used with this unit.*

***Memory hold connection***

*When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.*

***Notes on speaker connection***

- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.*
- *Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.*

***Warning***

*If you have a power aerial without a relay box, connecting this unit with the supplied power connecting cord ⑨ may damage the aerial.*

*Cuando cambie la posición del selector, cerciórese de presionar los botón de reposición después de haber finalizado las conexiones.*

***Notas sobre conductores de control***

- *El conductor de control de la antena motorizada (azul) suministrará +12 V CC cuando conecte la alimentación del sintonizador o cuando active la función de actuación automática del sintonizador (ATA), frecuencia alternativa (AF), la de anuncios de tráfico (TA), o de repetición de información sobre el tráfico (TIR).*
- *Con esta unidad no podrá utilizarse una antena motorizada sin caja de relés.*

***Conexión para protección de la memoria***

*Si conecta el conductor de entrada amarillo, el circuito de la memoria recibirá siempre alimentación, incluso aunque ponga la llave de encendido en la posición OFF.*

***Notas sobre la conexión de los altavoces***

- *Antes de conectar los altavoces, desconecte la alimentación de la unidad.*
- *Utilice altavoces con una impedancia de 4 a 8 ohmios, y con la potencia máxima admisible adecuada, ya que de lo contrario podría dañarlos.*
- *No conecte los terminales del sistema de altavoces al chasis del automóvil, ni los del altavoz izquierdo a los del derecho.*
- *No intente conectar los altavoces en paralelo.*
- *No conecte altavoces activos (con amplificadores incorporados) a los terminales de altavoces de la unidad. Si lo hiciese, podría dañar tales altavoces. Por lo tanto, cerciórese de conectar altavoces pasivos a estos terminales.*

***Advertencia***

*Si dispone de una antena motorizada sin dispositivo de relé, la conexión de esta unidad con el cable de conexión de alimentación ⑨ suministrado puede dañar la antena.*

*Kom ihåg att trycka på återställningsknapp efter slutförda anslutningar när väljarläget ändrats.*

***Att observera angående de olika styrkablarna***

- *Motorantennens styrkabel (blå) leder +12 volts likström när bilradion slås på eller när radiomottagningsautomatik ATA, mottagning av alternativa frekvenser AF, mottagning av trafikmeddelanden TA eller uppspelning av trafikinformation TIR kopplas in.*
- *En motorantenn utan styrreläddosa kan inte anslutas till denna bilstereo.*

***Anslutning för minnesstöd***

*När du ansluter den gula, ingående strömkabeln försörjs minneskretsen med ström hela tiden, även när tändläset slås ifrån.*

***Att observera angående högtalarnas anslutning***

- *Slå av bilstereon innan du ansluter högtalarna.*
- *Anslut endast högtalare, vars impedans varierar från 4 till 8 ohm och som har tillräcklig effekthanteringskapacitet för att skydda högtalarna mot skador.*
- *Anslut inte något av högtalaruttagen till bilens chassi. Anslut inte heller uttagen på höger högtalare till uttagen på vänster högtalare.*
- *Anslut inte högtalarna parallellt.*
- *Anslut inte aktiva högtalare (med inbyggda slutsteg) till bilstereens högtalaruttag, eftersom de kan skada de aktiva högtalarna.*
  *Var noga med att bara ansluta passiva högtalare till dessa uttag.*

***Varning***

*Om du har en motorantenn utan reläddosa kan antennen skadas om du ansluter enheten med den medföljande strömkabeln ⑨.*

*Se alterar a posição do selector tem de carregar numa das tecla de reinicialização depois de ter terminado de fazer todas as ligações.*

***Notas sobre os fios de controlo***

- *O fio de controlo da antena eléctrica (azul) fornece +12 V CC quando da ligação do sintonizador ou da activação da função ATA (Activação automática do sintonizador), AF (Frequência Alternativa), TA (Boletins de Tráfego) ou TIR (Repetição da Informação de Tráfego).*
- *Uma antena motorizada sem um relé não pode ser utilizada com este aparelho.*

***Ligação para alimentação contínua da memória***

*Quando, o fio amarelo de entrada de alimentação for ligado, os circuitos de memória ficarão com alimentação contínua, mesmo se a chave de ignição estiver desligada.*

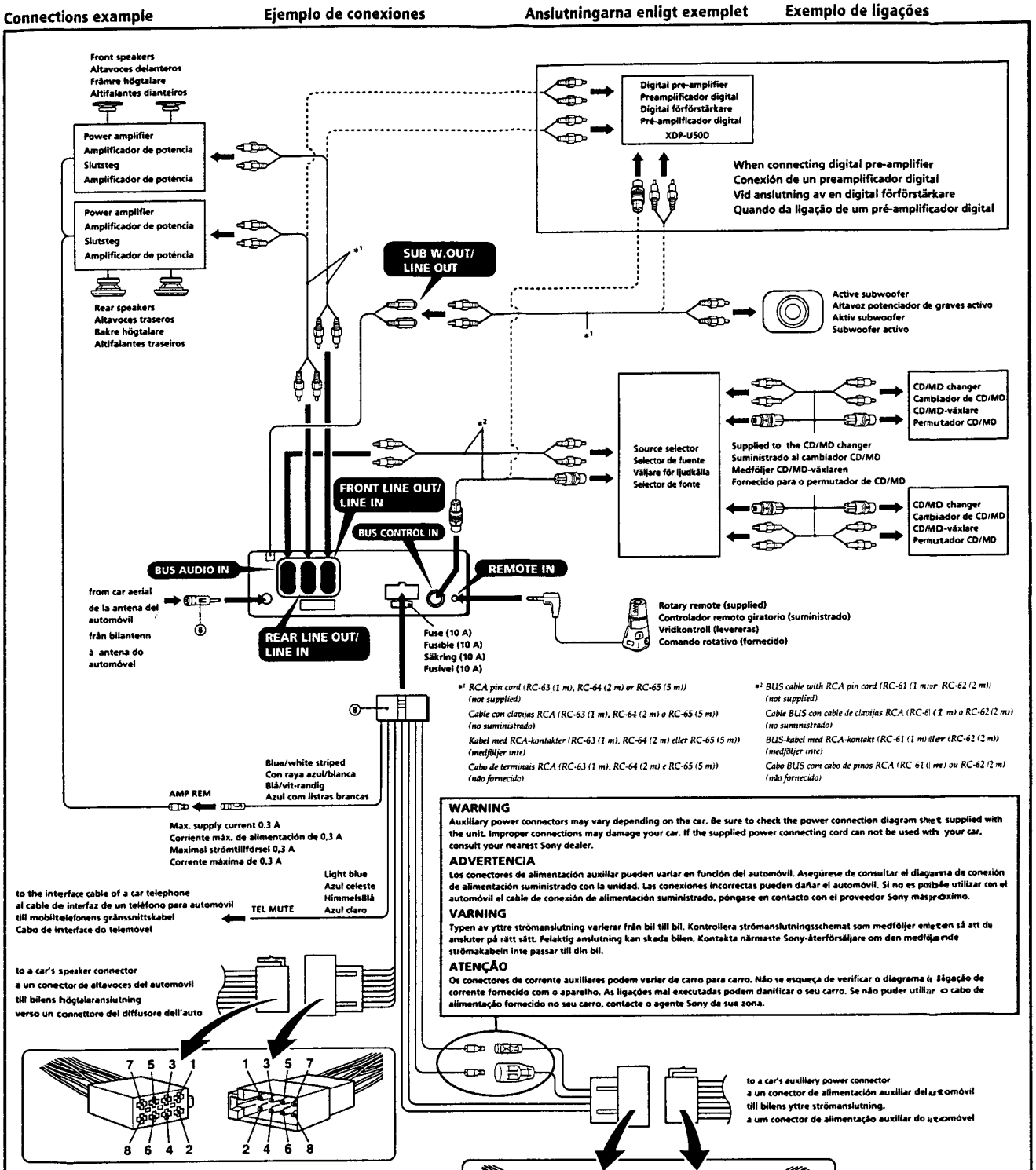
***Notas sobre a ligação dos altifalantes***

- *Antes de ligar os altifalantes, desligue o aparelho.*
- *Utilize altifalantes com impedância de 4 a 8 ohm, e com capacidade admissível de potência adequada. Caso contrário, os altifalantes poderão sofrer avarias.*
- *Não ligue os terminais do sistema de altifalantes ao chassis do automóvel, e não ligue os terminais do altifalante direito aos terminais do altifalante esquerdo.*
- *Não tente ligar os altifalantes em paralelo.*
- *Não ligue nenhum sistema de altifalantes activos (com amplificadores incorporados) aos terminais do aparelho.*
  *Caso o faça, poderá avariar o sistema de altifalantes activos. Portanto, não se esqueça de ligar altifalantes passivos aos estes terminais.*

***Atenção***

*Se a antena eléctrica não tiver uma caixa de relé, o facto de ligar esta aparelho com a cabo de alimentação ⑨ fornecido, pode provocar danos na antena.*

## Connections example — Ejemplo de conexiones — Anslutningarna enligt exemplet — Exemplo de ligações




*1 RCA pin cord (RC-63 (1 m), RC-64 (2 m) or RC-65 (5 m)) (not supplied)
*Cable con clavijas RCA (RC-63 (1 m), RC-64 (2 m) o RC-65 (5 m)) (no suministrado)*
*Kabel med RCA-kontakter (RC-63 (1 m), RC-64 (2 m) eller RC-65 (5 m)) (medföljer inte)*
*Cabo de terminais RCA (RC-63 (1 m), RC-64 (2 m) e RC-65 (5 m)) (não fornecido)*

*2 BUS cable with RCA pin cord (RC-61 (1 m) or RC-62 (2 m)) (not supplied)
*Cable BUS con cable de clavijas RCA (RC-61 (1 m) o RC-62 (2 m)) (no suministrado)*
*BUS-kabel med RCA-kontakt (RC-61 (1 m) eller (RC-62 (2 m)) (medföljer inte)*
*Cabo BUS com cabo de pinos RCA (RC-61 (1 m) ou RC-62 (2 m) (não fornecido)*

### WARNING
Auxiliary power connectors may vary depending on the car. Be sure to check the power connection diagram sheet supplied with the unit. Improper connections may damage your car. If the supplied power connecting cord can not be used with your car, consult your nearest Sony dealer.

### ADVERTENCIA
Los conectores de alimentación auxiliar pueden variar en función del automóvil. Asegúrese de consultar el diagrama de conexión de alimentación suministrado con la unidad. Las conexiones incorrectas pueden dañar el automóvil. Si no es posible utilizar con el automóvil el cable de conexión de alimentación suministrado, póngase en contacto con el proveedor Sony más próximo.

### VARNING
Typen av yttre strömanslutning varierar från bil till bil. Kontrollera strömanslutningsschemat som medföljer enheten så att du ansluter på rätt sätt. Felaktig anslutning kan skada bilen. Kontakta närmaste Sony-återförsäljare om den medföljande strömkabeln inte passar till din bil.

### ATENÇÃO
Os conectores de corrente auxiliares podem variar de carro para carro. Não se esqueça de verificar o diagrama de ligação de corrente fornecido com o aparelho. As ligações mal executadas podem danificar o seu carro. Se não puder utilizar o cabo de alimentação fornecido no seu carro, contacte o agente Sony da sua zona.

| Pin Pin Pol Pino | Colour Color Färg Cor | Function Función Funktion Função | Pin Pin Pol Pino | Colour Color Färg Cor | Function Función Funktion Função |
|---|---|---|---|---|---|
| 1 | Purple Purpura | +; Speaker, Rear, Right<br>+; Altavoz, trasero, derecho<br>+; Högtalare, bakre, höger<br>+; Altifalante, Parte de trás, Direito | 5 | White Blanco Vit Branco | +; Speaker, Front, Left<br>+; Altavoz, delantero, izquierdo<br>+; Högtalare, främre, vänster<br>+; Altifalante, Parte da frente, Esquerdo |
| 2 | Morklila Violeta | -; Speaker, Rear, Right<br>-; Altavoz, trasero, derecho<br>-; Högtalare, bakre, höger<br>-; Altifalante, Parte de trás, Direito | 6 | | -; Speaker, Front, Left<br>-; Altavoz, delantero, izquierdo<br>-; Högtalare, främre, vänster<br>-; Altifalante, Parte da frente, Esquerdo |
| 3 | Gray Gris | +; Speaker, Front, Right<br>+; Altavoz, delantero, derecho<br>+; Högtalare, främre, höger<br>+; Altifalante, Parte da frente, Direito | 7 | Green Verde Grön Verde | +; Speaker, Rear, Left<br>+; Altavoz, trasero, izquierdo<br>+; Högtalare, bakre, vänster<br>+; Altifalante, Parte de trás, Esquerdo |
| 4 | Grau Cinza | -; Speaker, Front, Right<br>-; Altavoz, delantero, derecho<br>-; Högtalare, främre, höger<br>-; Altifalante, Parte da frente, Direito | 8 | | -; Speaker, Rear, Left<br>-; Altavoz, trasero, izquierdo<br>-; Högtalare, bakre, vänster<br>-; Altifalante, Parte de trás, Esquerdo |

*Negative polarity positions 2, 4, 6 and 8 have striped cords.*
*Las posiciones de polaridad negativa 2, 4, 6 y 8 tienen cables con raya.*
*De negativa polpositionerna 2, 4, 6 och 8 har randiga kablar.*
*As posições 2, 4, 6 e 8 (polaridade negativa) têm cabos às riscas.*

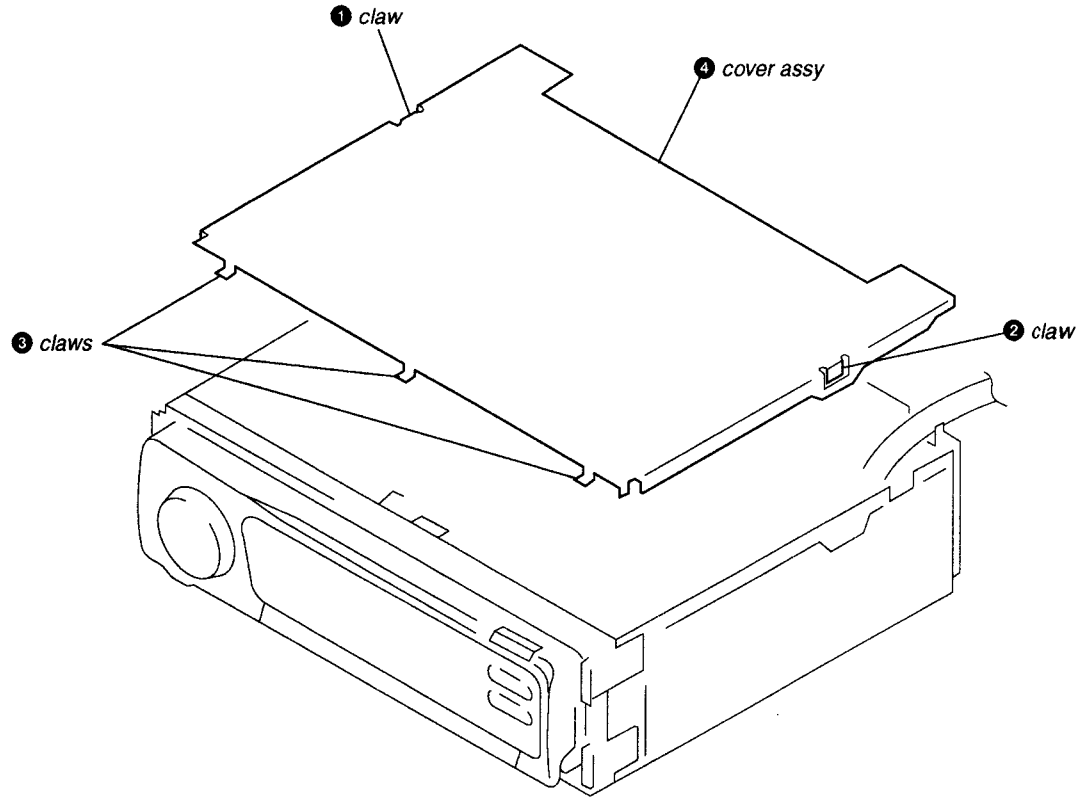
| Pin Pin Pol Pino | Colour Color Färg Cor | Function Función Funktion Função | Pin Pin Pol Pino | Colour Color Färg Cor | Function Función Funktion Função |
|---|---|---|---|---|---|
| 4 | Yellow Amarillo Gul Amarello | continuous power supply<br>suministro de alimentación continua<br>kontinuerlig strömförsörjning<br>alimentação ininterrupta de corrente | 7 | Red Rojo Rött Vermelho | switched power supply<br>suministro de alimentación conmutado<br>switchad strömförsörjning<br>afornecimento comutado de corrente |
| 5 | Blue Azul Blå Azul | power aerial control<br>control de antena eléctrica motorizada<br>elektrisk seriell<br>antena eléctrica | 8 | Black Negro Svart Preto | ground<br>tomada de tierra<br>jord<br>Terra |
| 6 | Orange/white striped<br>Con raya naranja/blanca<br>Orange-och vitrandig<br>Com riscas cor de laranja e brancas | switched illumination power supply<br>suministro de alimentación de iluminación conmutada<br>strömförsörjning till belysning (växlad)<br>Fonte de fornecimento de iluminação comutada | | | |

*Positions 1, 2, and 3 do not have pins.*
*Las posiciones 1, 2 y 3 no disponen de pines.*
*Positionerna 1, 2 och 3 saknar stift.*
*As posições 1, 2 e 3 não têm pinos.*

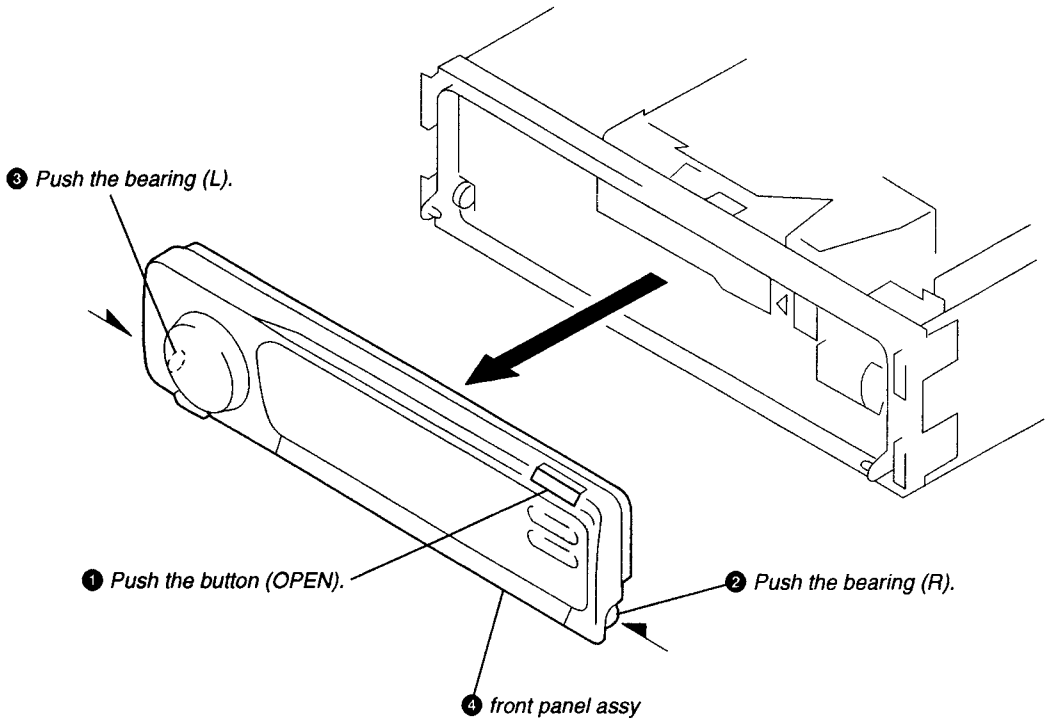
# SECTION 2
# DISASSEMBLY

**Note :** Follow the disassembly procedure in the numerical order given.

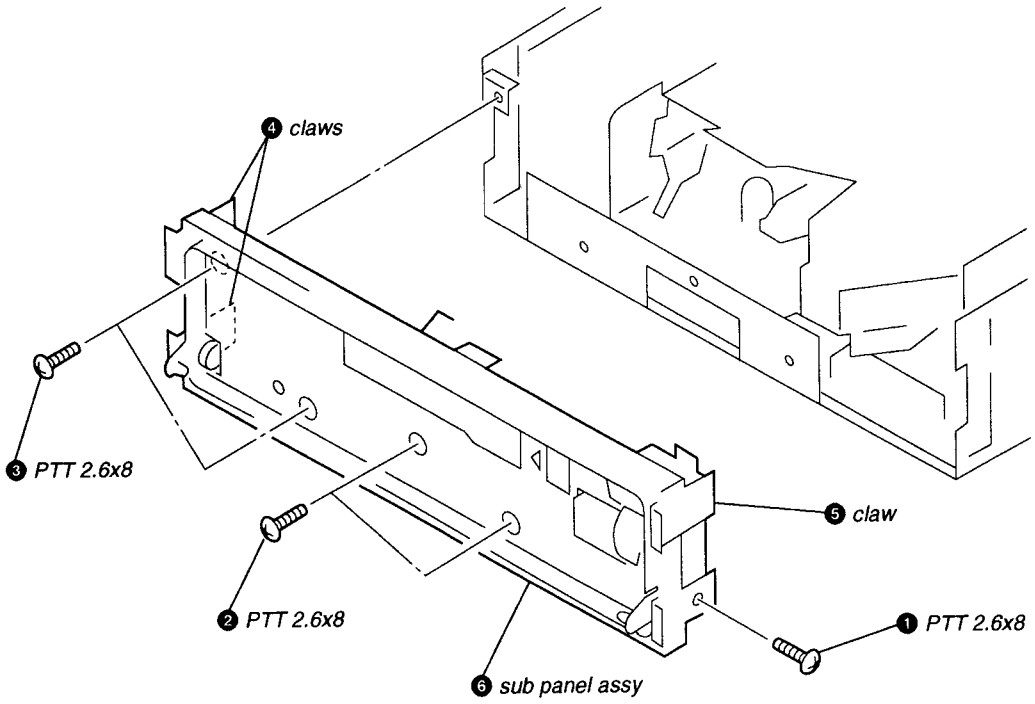
## 2-1. COVER ASSY



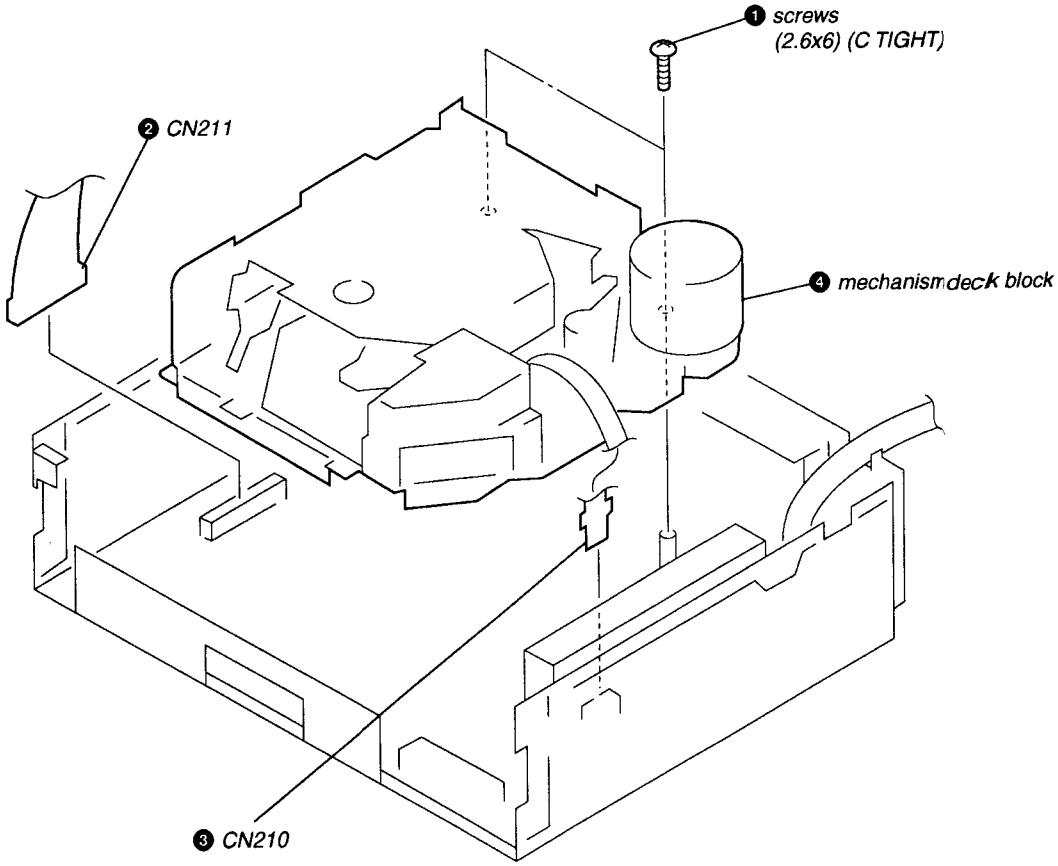

## 2-2. FRONT PANEL ASSY



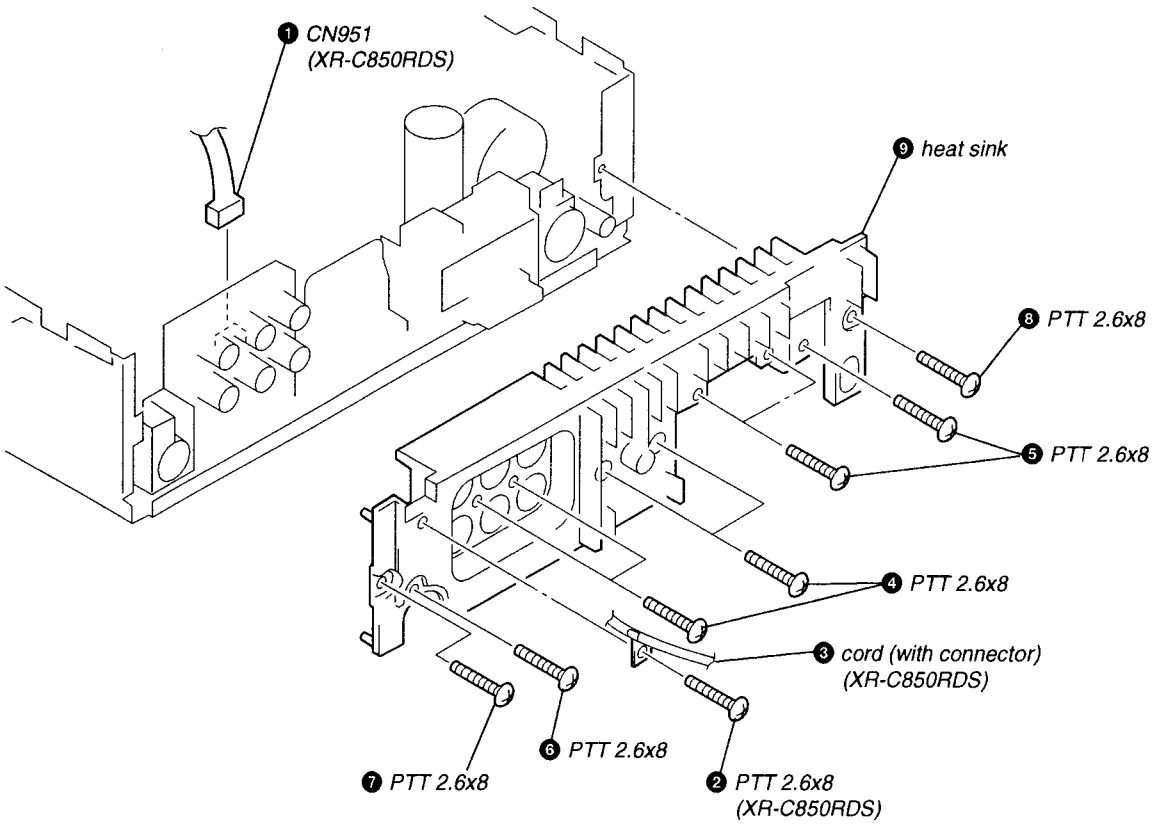
## 2-3. SUB PANEL ASSY



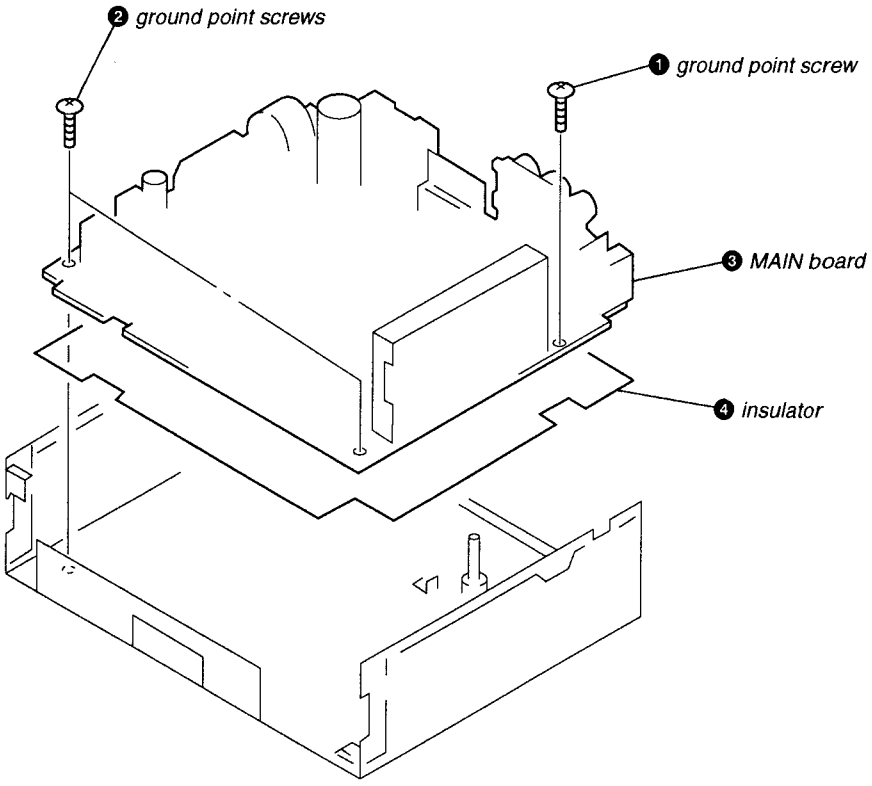

## 2-4. MECHANISM DECK BLOCK



## 2-5. HEAT SINK



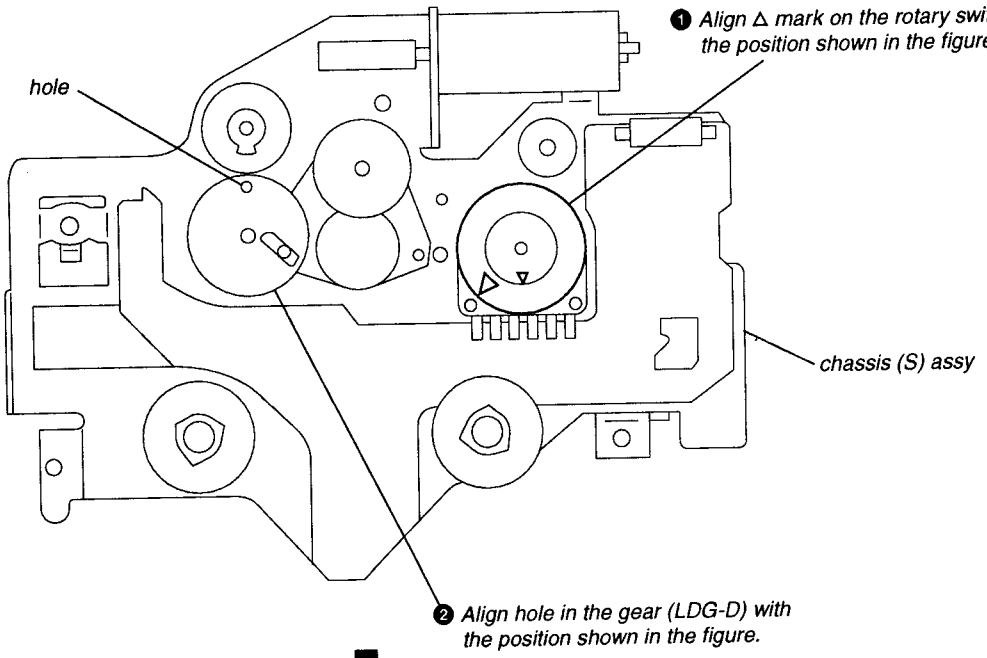

## 2-6. MAIN BOARD



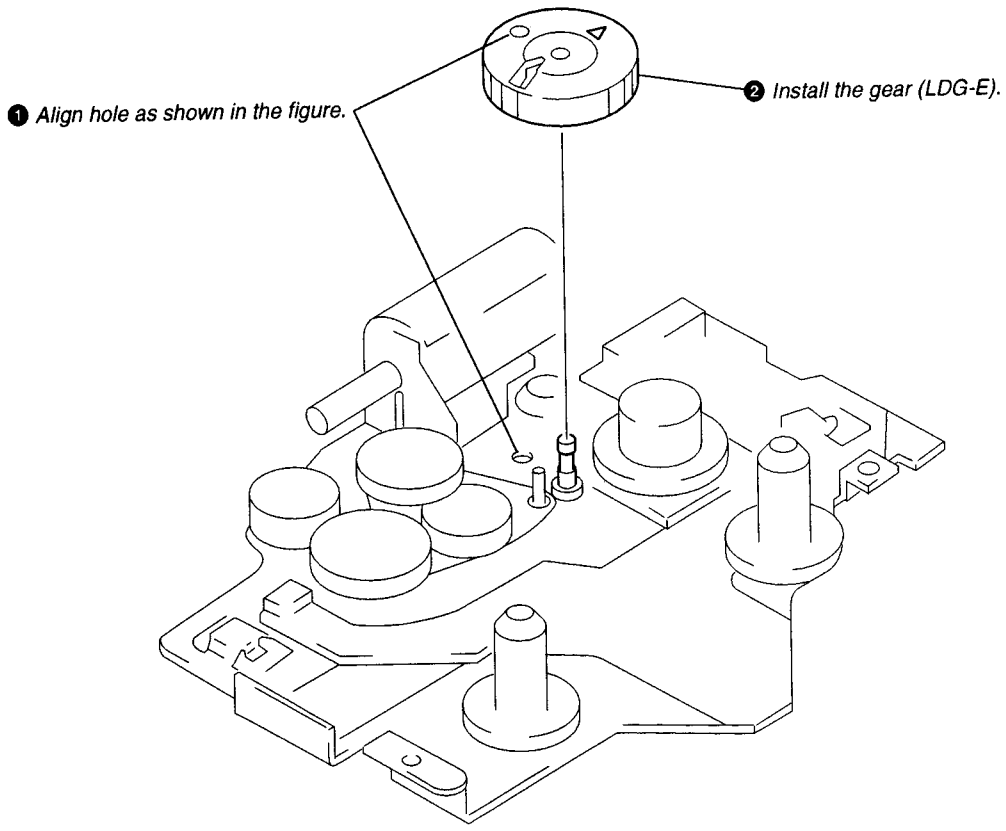
# SECTION 3
# ASSEMBLY OF MECHANISM DECK

**Note :** Follow the assembly procedure in the numerical order given.

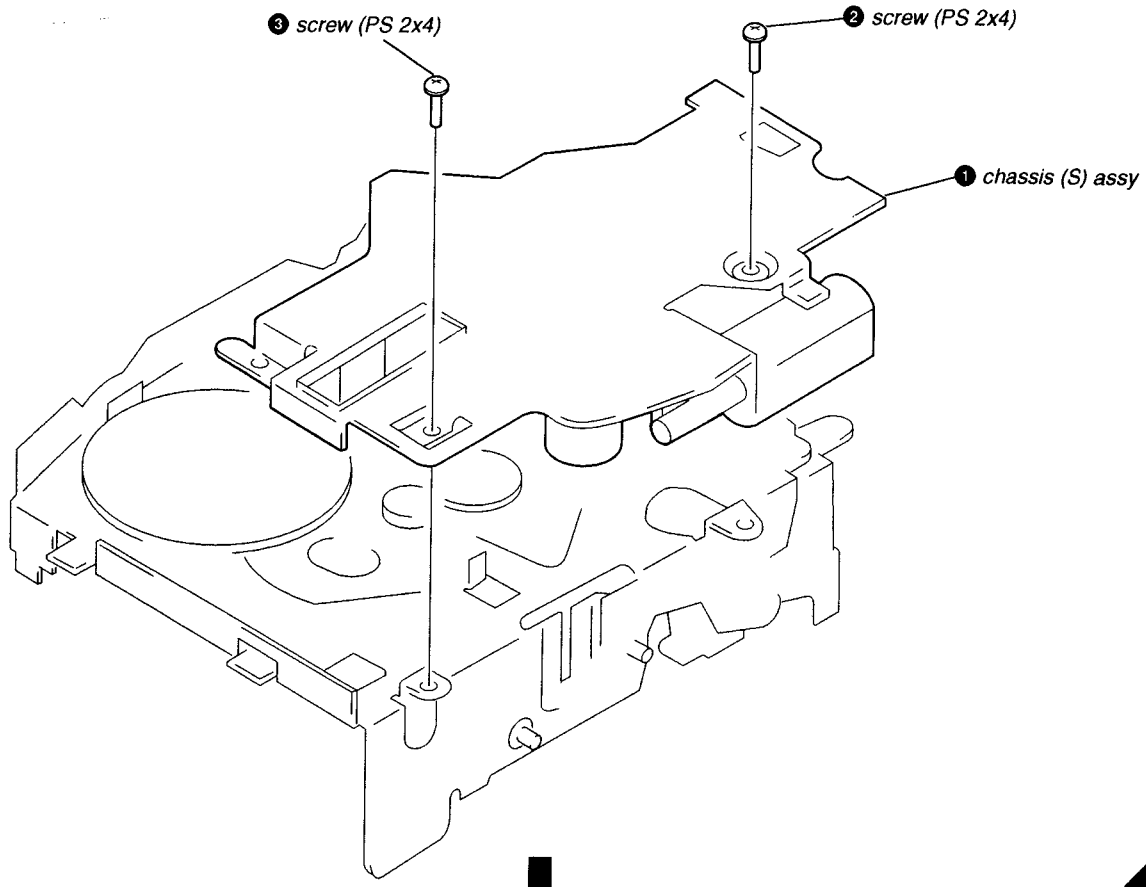
## ALIGNMENT OF ROTARY SWITCH


❶ Align △ mark on the rotary switch the position shown in the figure.
hole
chassis (S) assy
❷ Align hole in the gear (LDG-D) with the position shown in the figure.

## GEAR (LDG-E)

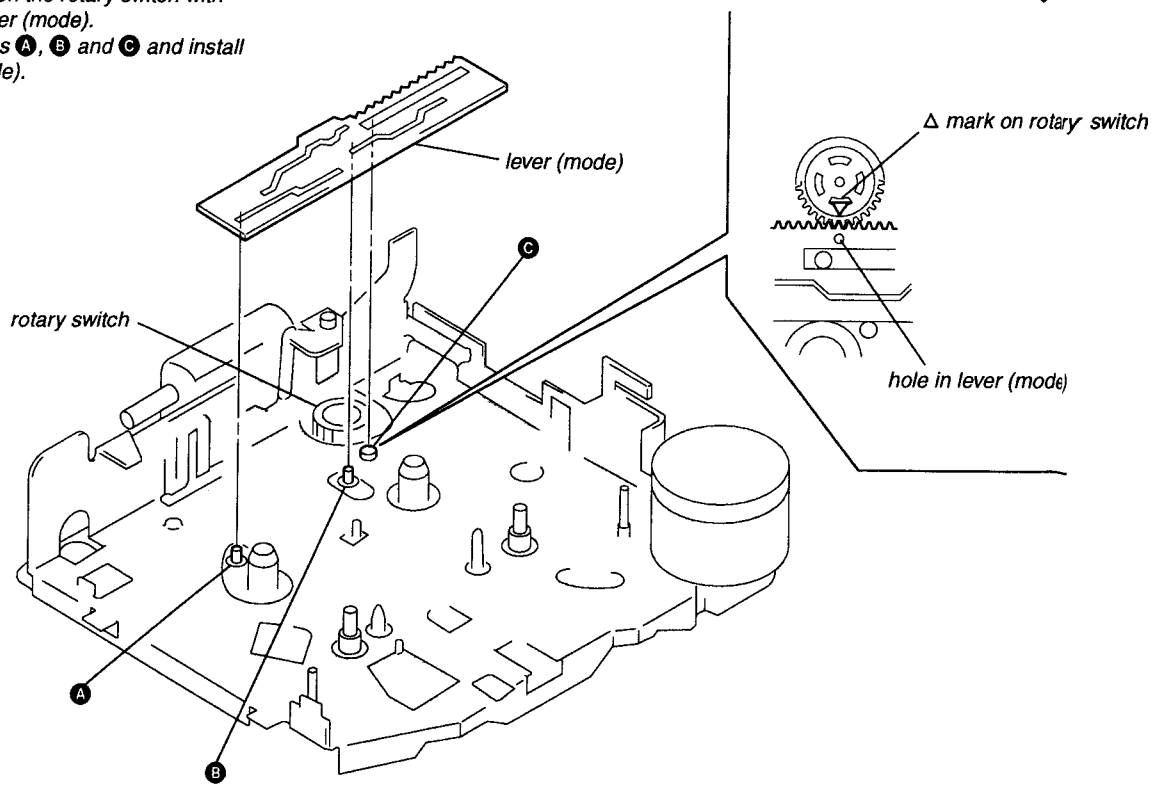


## CHASSIS (S) ASSY

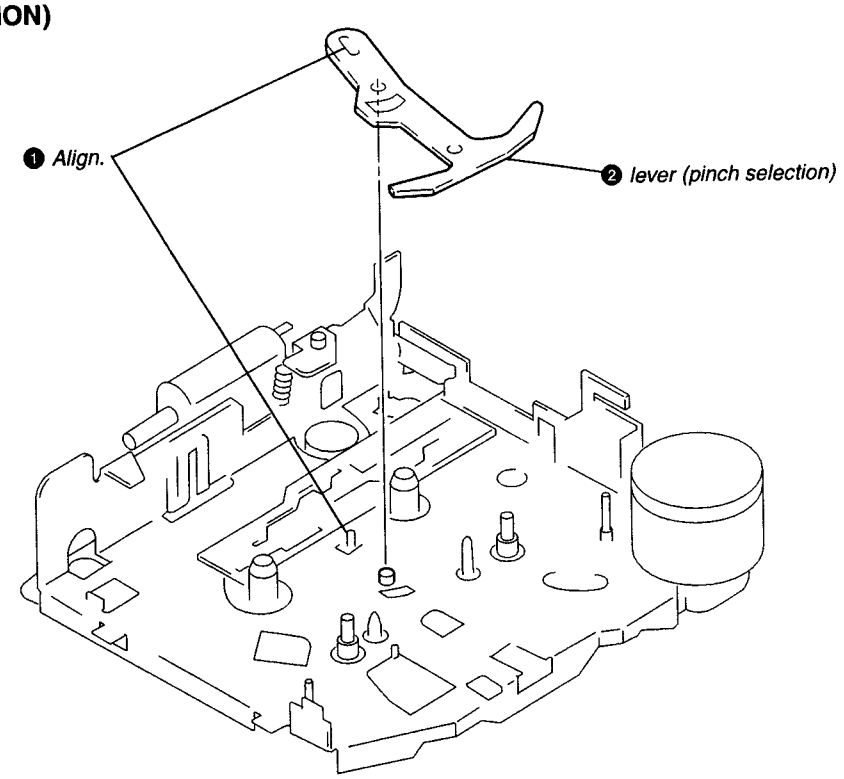



## LEVER (MODE)

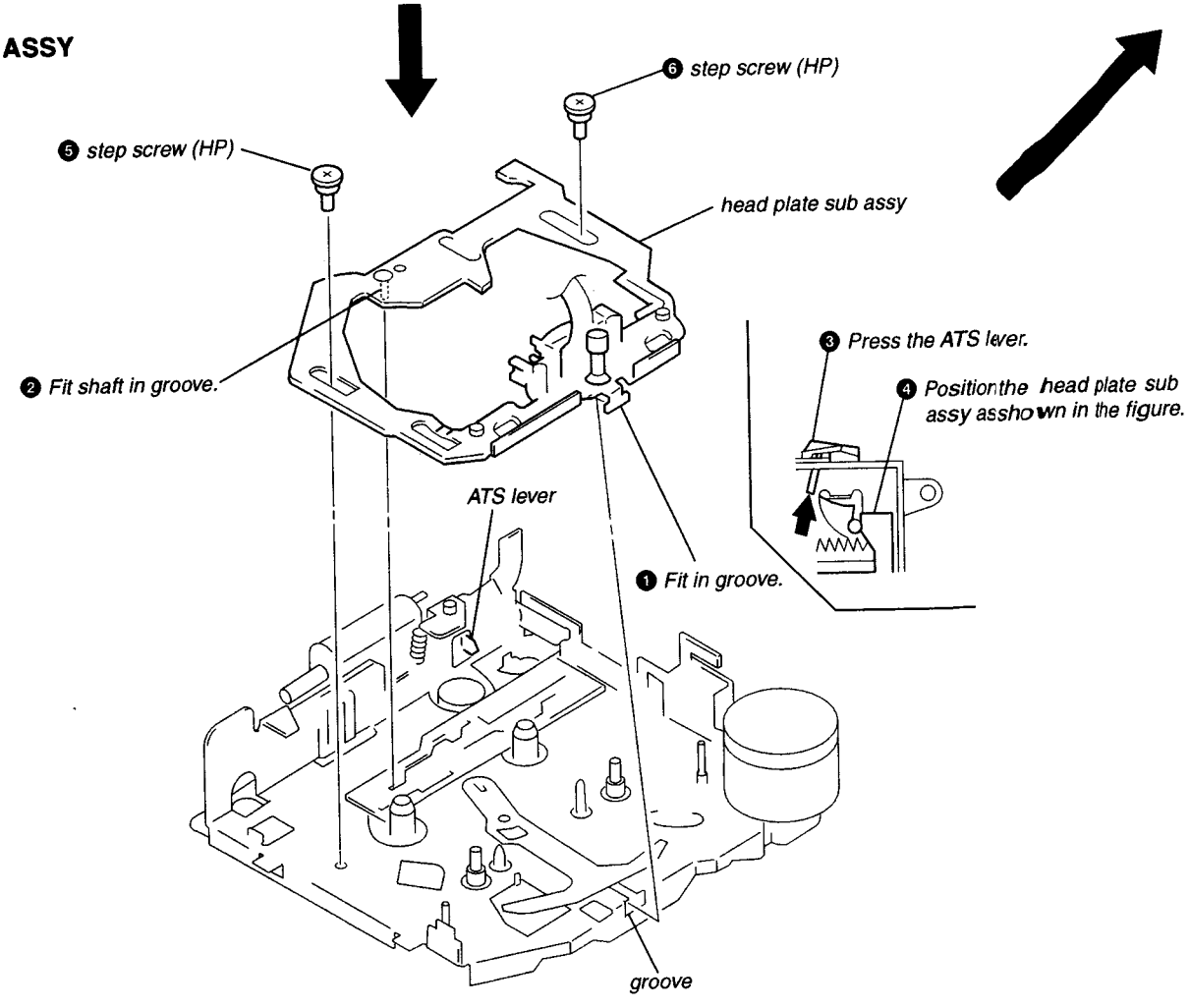
1. Align △ mark on the rotary switch with hole in the lever (mode).
2. Fit on positions Ⓐ, Ⓑ and Ⓒ and install the lever (mode).



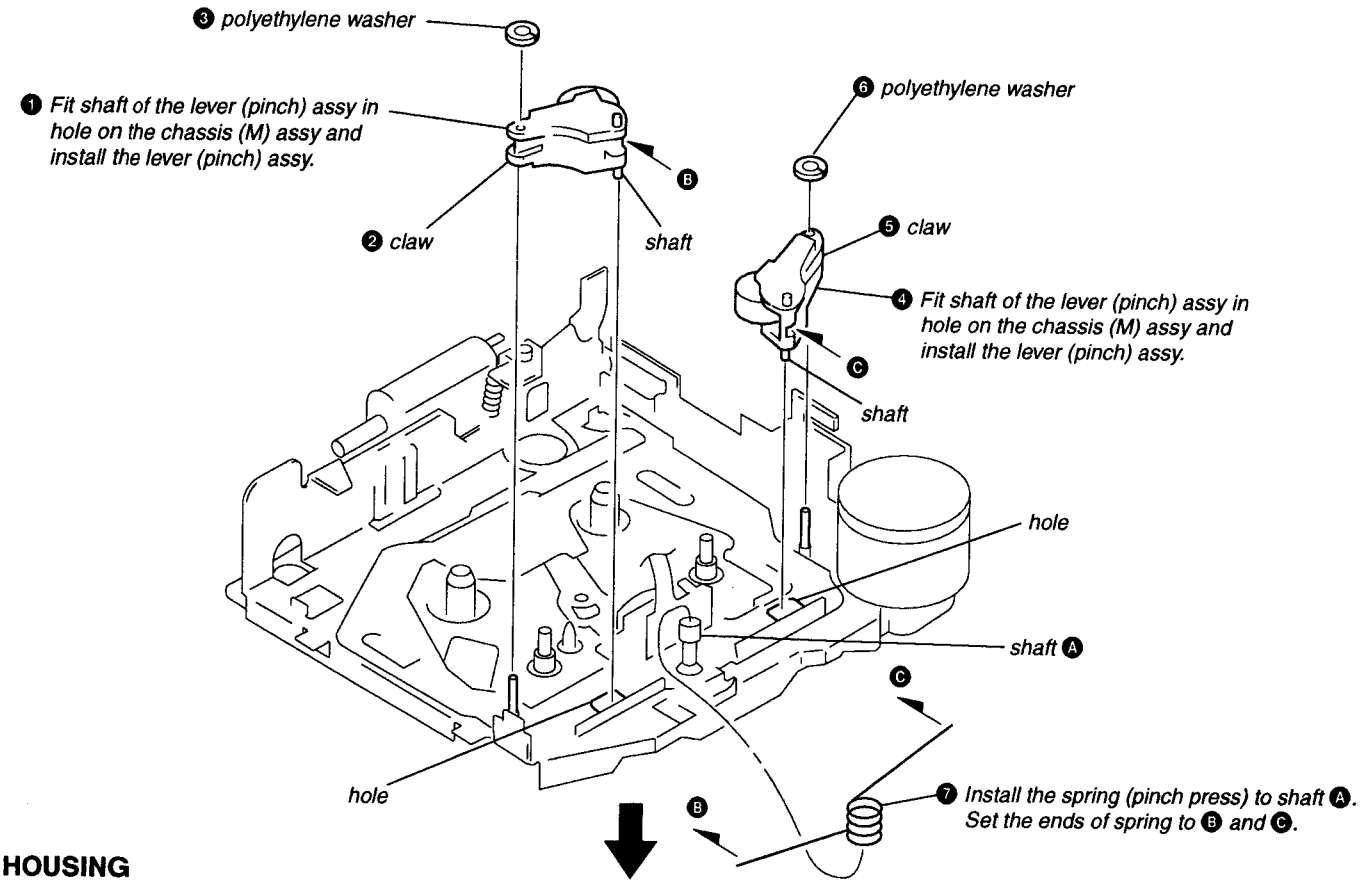
## LEVER (PINCH SELECTION)



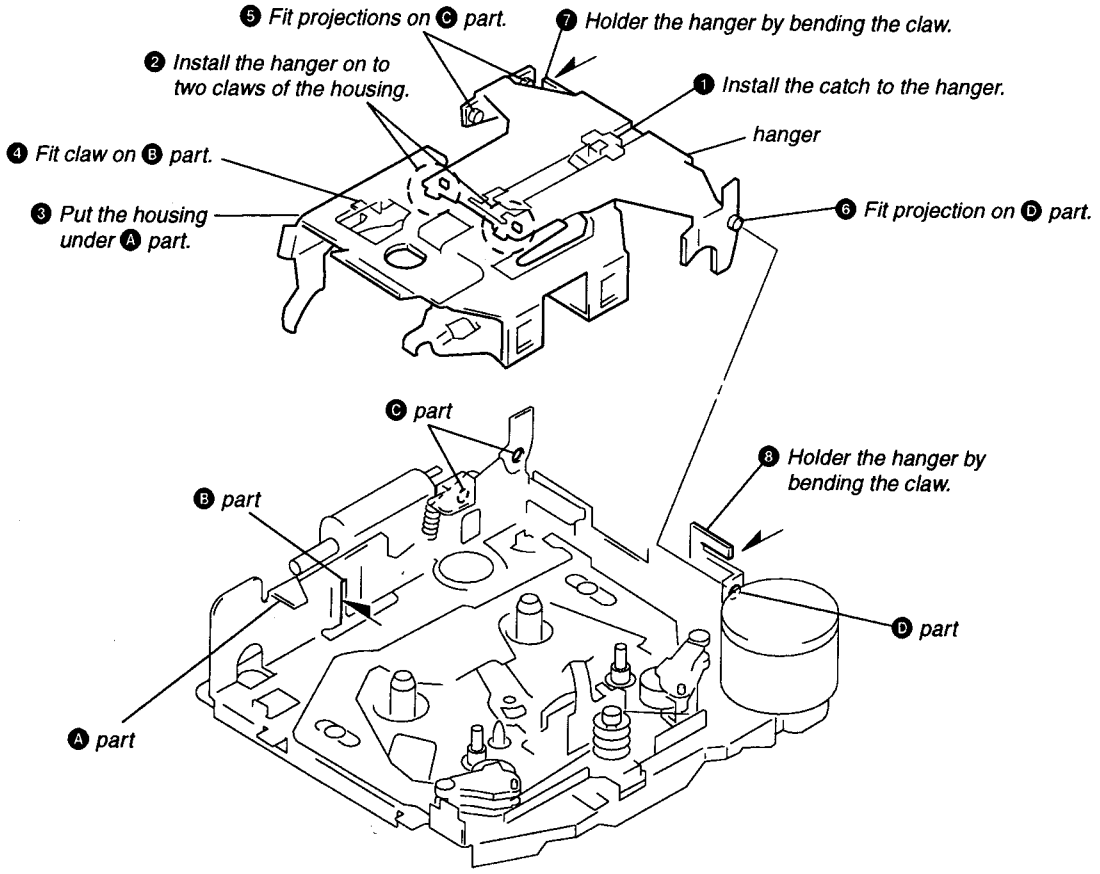

## HEAD PLATE ASSY


❻ step screw (HP)
❺ step screw (HP)
head plate sub assy
❷ Fit shaft in groove.
❸ Press the ATS lever.
❹ Position the head plate sub assy as shown in the figure.
ATS lever
❶ Fit in groove.
groove

## LEVER (PINCH) ASSY


❸ polyethylene washer
❶ Fit shaft of the lever (pinch) assy in hole on the chassis (M) assy and install the lever (pinch) assy.
❷ claw
shaft
Ⓑ
❻ polyethylene washer
❺ claw
❹ Fit shaft of the lever (pinch) assy in hole on the chassis (M) assy and install the lever (pinch) assy.
Ⓒ
shaft
hole
shaft Ⓐ
Ⓒ
hole
Ⓑ
❼ Install the spring (pinch press) to shaft Ⓐ. Set the ends of spring to Ⓑ and Ⓒ.

## HOUSING


❺ Fit projections on Ⓒ part.
❼ Holder the hanger by bending the claw.
❷ Install the hanger on to two claws of the housing.
❶ Install the catch to the hanger.
hanger
❹ Fit claw on Ⓑ part.
❸ Put the housing under Ⓐ part.
❻ Fit projection on Ⓓ part.
Ⓒ part
❽ Holder the hanger by bending the claw.
Ⓑ part
Ⓓ part
Ⓐ part

# SECTION 4
# MECHANICAL ADJUSTMENTS

## PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment :
   PB head　　Pinch roller
   Idler　　Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After the adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4 V).

### Torque Measurement

| Mode | Torque Meter | Meter Reading |
|---|---|---|
| FWD | CQ-102C | 35 – 65 g • cm (0.49 – 0.90 oz • inch) |
| FWD Back Tension | | 0.5 – 5.0 g • cm (0.01 – 0.07 oz • inch) |
| REV | CQ-102RC | 35 – 65 g • cm (0.49 – 0.90 oz • inch) |
| REV Back Tension | | 0.5 – 5.0 g • cm (0.01 – 0.07 oz • inch) |
| FF, REW | CQ-201B | 60 – 200 g • cm (0.83 – 2.78 oz • inch) |

### Tape Tension Measurement

| Mode | Tension Meter | Meter Reading |
|---|---|---|
| FWD | CQ-403A | more than 60 g (more than 2.12 oz) |
| REV | CQ-403R | |

# SECTION 5
# ELECTRICAL ADJUSTMENTS

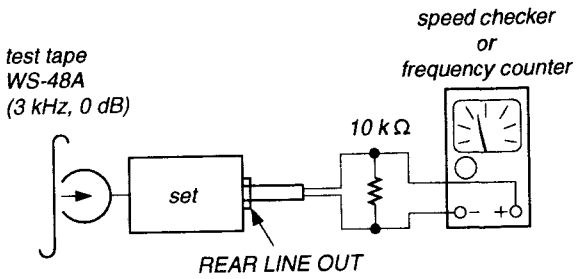
See the adjustment location from on page 29 for the adjustment.

**DECK SECTION**　　**0 dB = 0.775 V**

### Tape Speed Adjustment

**Procedure :**

1. Put the set into the FWD PB mode.




**Specification :** Constant speed

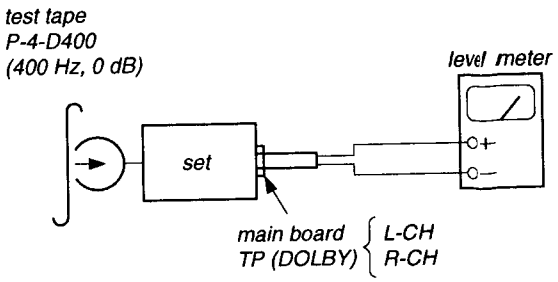
| Speed checker | Frequency counter |
|---|---|
| – 1.5 to + 2.5 % | 2,955 to 3,075 Hz |

**Adjustment Location :** See page 29.

### DOLBY Level Adjustment

**setting :**

SHIFT button : ON (light up SET UP and PLAY MODE)
Preset [3] (PLAY MODE) button : NR off
SOUND (BAS) button : Center
SOUND (TRE) button : Center
SOUND (BAL) button : Center
SOUND (FAD) button : Center
SOUND (VOL) button : Maximum




**Procedure :**

1. Put the set into the FWD PB mode.
2. Adjust RV301 (L-CH) and RV401 (R-CH) so that level meter reading is – 6 ± 1 dB (0.35 to 0.44 V).

**Adjustment Location :** See page 29.

**TUNER SECTION** **0 dB = 1 μV**

**Cautions during repair**
When the tuner unit is defective, replace it by a new one because its internal block is difficult to repair.

## TEST MODE

This set have the test mode function. In the test mode, FM Auto Scan/ Stop Level and MW Auto Scan/Stop Level adjustments can be performed easier than it in ordinary procedure.

<Set the Test Mode>
1. Set the "OFF" mode.
2. Push the preset [4] button.
3. Push the preset [5] button.
4. Press the preset [1] button for more than two seconds.
5. Then the display indicates all lights, the test mode is set.

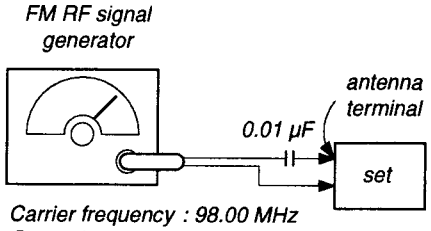
<Release the Test Mode>
1. Push the [OFF] button.

### Note on Adjustment

The adjustments of tuner section, should be performed according to the following sequence.
1. FM Auto Scan/Stop Level Adjustment
2. FM Stereo Separation Adjustment
3. FM Noise Focus Adjustment (XR-C850RDS : German model)
4. FM RDS S-Meter Adjustment
5. MW Auto Scan/Stop Level Adjustment

### FM Auto Scan/Stop Level Adjustment

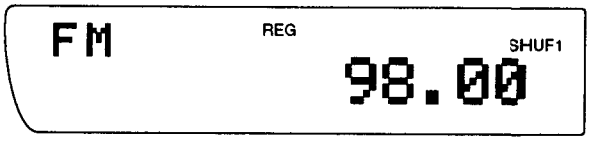
**Setting :**
SOURCE button : FM




*Carrier frequency : 98.00 MHz*
*Output level : 22 dB (12.6 μV)*
*Mode : mono*
*Modulation : 1 kHz, 22.5 kHz deviation (30%)*

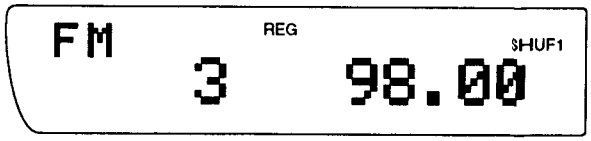
**Procedure :**
1. Set to the test mode.
2. Push the [SOURCE] button and set to FM.

Display



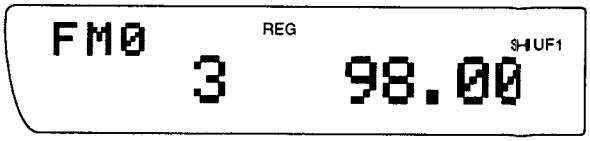

3. Push the preset [3] button.

Display




4. Adjust with the volume RV2 on TU10 so that the "FM" indication turns to "FM0" indication on the display window.
But, in case of already indicated "FM0", turn the RV2 so that put out light "0" indication and adjustment.

Display

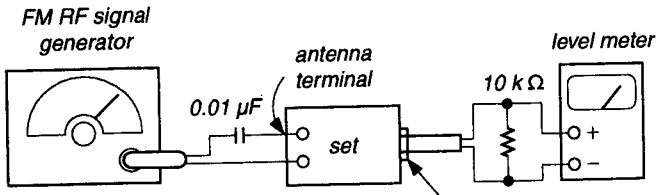



**Adjustment Location :** See page 29.

### FM Stereo Separation Adjustment

**Setting :**

SOURCE button : FM




*Carrier frequency : 98.00 MHz*
*Output level : 70 dB (3.2 mV)*
*Mode : stereo*
*Modulation : main : 1 kHz, 20 kHz deviation (26.5%)*
*sub : 1 kHz, 20 kHz deviation (26.5%)*
*19 kHz pilot : 7.5 kHz deviation (10%)*

**Procedure :**

| FM stereo signal generator output channel | Level meter connection | Level meter reading (dB) |
|---|---|---|
| L-CH | L-CH | Ⓐ |
| R-CH | L-CH | Ⓑ Adjust RV4 on TU10 for minimum reading. |
| R-CH | R-CH | Ⓒ |
| L-CH | R-CH | Ⓓ Adjust RV4 on TU10 for minimum reading. |

L-CH stereo separation : Ⓐ – Ⓑ
R-CH stereo separation : Ⓒ – Ⓓ
The separations of both channels should be equal.

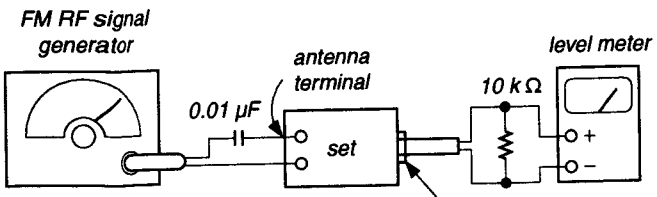
**Specification :** Separation more than 26 dB

**Adjustment Location :** See page 29.

### FM Noise Focus Adjustment (XR-C850RDS : German model)

**Setting :**

SOURCE button : FM




*Carrier frequency : 98.00 MHz*
*Output level : 60 dB (1 mV)*
*Mode : mono*
*Modulation : 1 kHz, 75 kHz deviation (100%)*

**Procedure :**

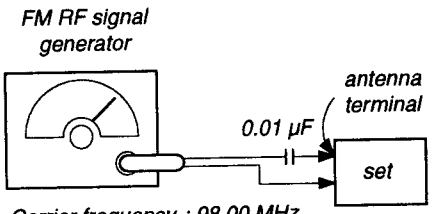
1. Tune the 98.00 MHz.
2. The then output level is supposing that 0 dB.
3. Adjust with the volume RV3 on TU10 so that the output level is – 32 ± 2 dB then signal generator input set to – 20 dB.

**Adjustment Location :** See page 29.

### FM RDS S-Meter Adjustment

**Setting :**

SOURCE button : FM

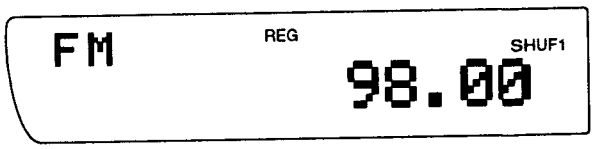



*Carrier frequency : 98.00 MHz*
*Output level : 35 dB (56.2 µV)*
*Mode : mono*
*Modulation : no modulation*

**Procedure :**

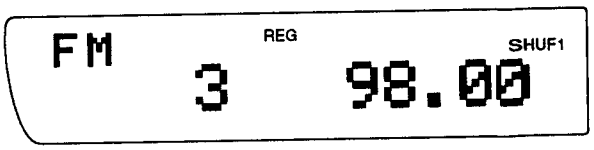
1. Set to the test mode. (See page 26.)
2. Push the [SOURCE] button and set to FM.

Display



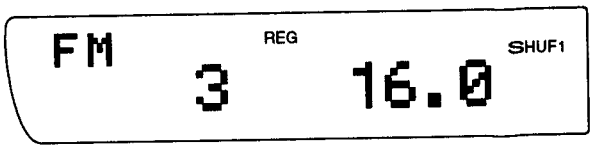

3. Push the preset [3] button.

Display




4. Push the preset [10] button.
5. Adjust RV110 so that the display indication is "16.0".

Display



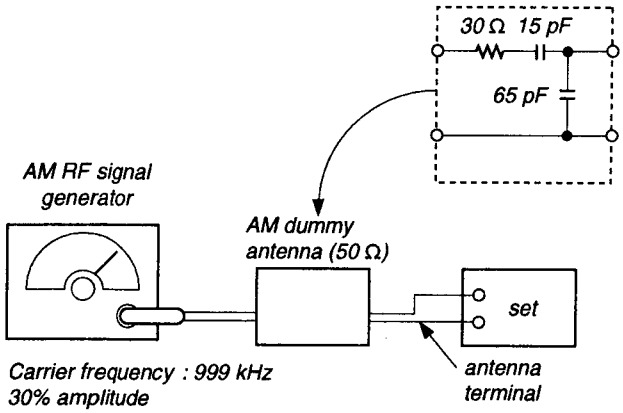

**Specification :** Display indication : 15.8 to 16.2.

**Adjustment Location :** See page 29.

**MW Auto Scan/Stop Level Adjustment**

**Setting :**

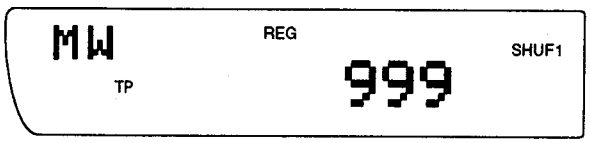
SOURCE → MODE button : MW


30 Ω 15 pF
65 pF
AM RF signal generator
AM dummy antenna (50 Ω)
set
antenna terminal
Carrier frequency : 999 kHz
30% amplitude modulation by 1 kHz signal
output level : 33 dB (44.7 μV)

**Procedure :**

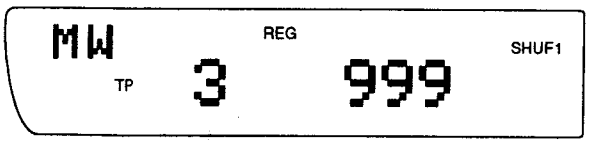
1. Set to the test mode. (See page 26.)
2. Push the [SOURCE] button.
3. Push the [MODE] button and set to MW.

Display



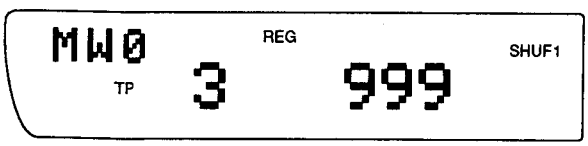

4. Push the preset [3] button.

Display




5. Adjust with the volume RV1 on TU10 so that the "MW" indication turns to "MW0" indication on the display window. But, in case of already indicated "MW0", turn the RV1 so that put out light "0" indication and adjustment.

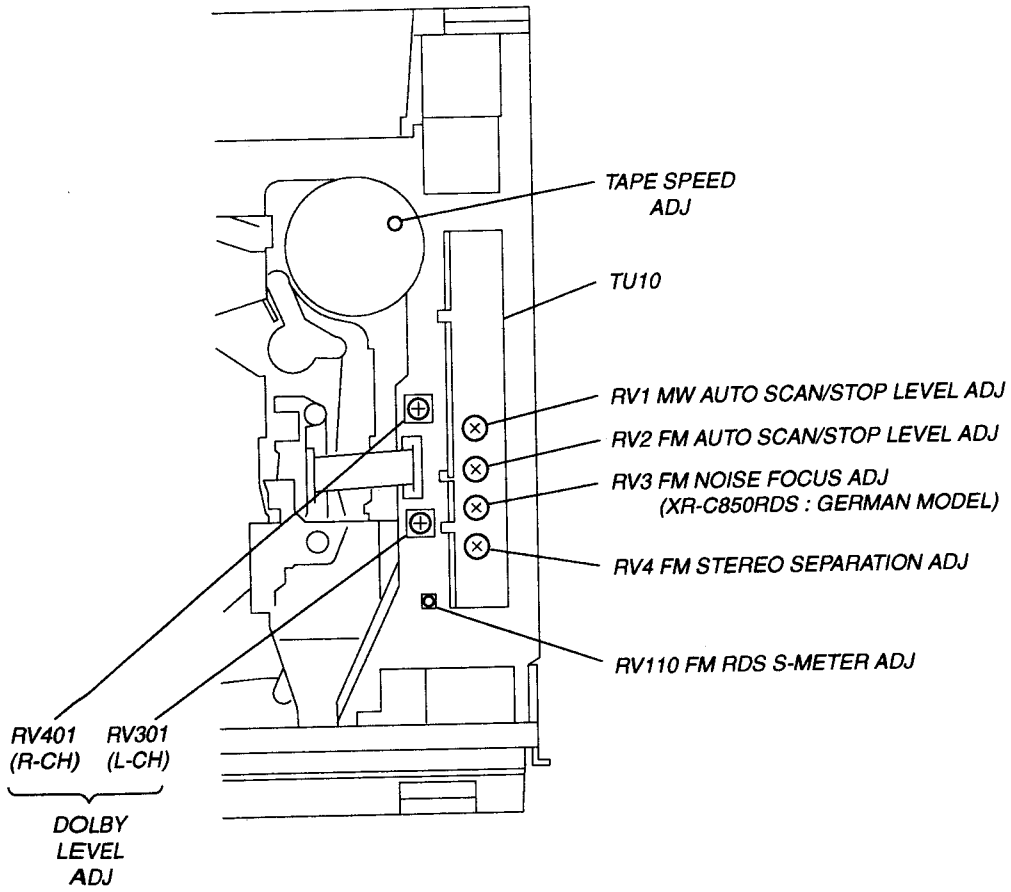
Display



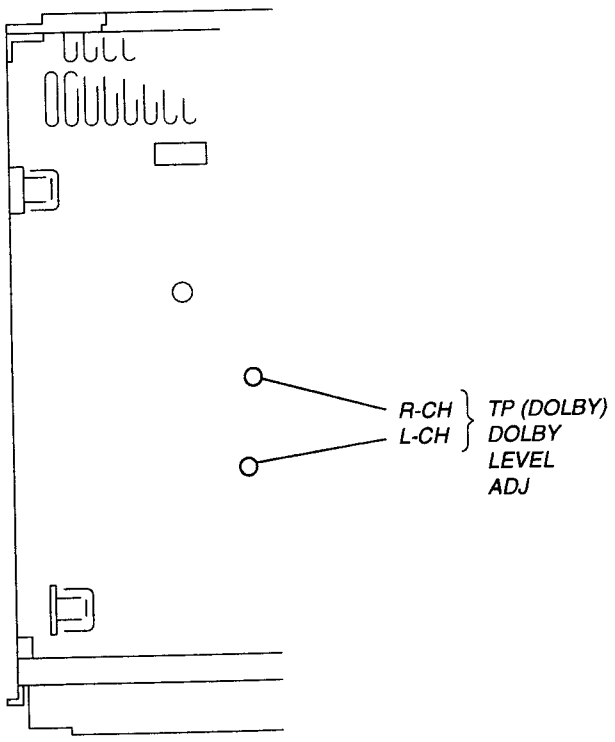

**Adjustment Location :** See page 29.

**Adjustment Location :** tuner unit (TU10)

*–set upper view–*




*–set bottom view–*



# SECTION 6
# DIAGRAMS

## 6-1. IC PIN DESCRIPTIONS

### • IC101 MN1884820Y5F (TUNER SYSTEM CONTROL)

| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 1 | $\overline{RD}$ | O | Read pulse output pin of data (D0 to D3). |
| 2 | $\overline{BUSY}$ | I | BUSY output monitor input pin |
| 3 – 6 | D3 – D0 | I/O | Command input/output 3 to 0. |
| 7 | VDD | — | Power supply pin |
| 8 | X1 | I | Ceramic oscillator connection input pin (8 MHz) |
| 9 | X2 | O | Ceramic oscillator connection output pin (8 MHz) |
| 10 | GND | — | GND |
| 11 | XI | I | Connect to GND. |
| 12 | — | — | Not used. |
| 13 | X0 | — | Connect to GND. |
| 14 | RESET | I | Reset input pin |
| 15 | RDSCKI/POS3 | I | Used in conjunction with RDS clock input/TAPE POS3 input. |
| 16 | BU IN | I | Back-up detection input pin |
| 17 | BUSON | I | Bus interface bus on input pin |
| 18 – 21 | POS3 – POS0 | I | Position signal detection input pin |
| 22 | — | — | Connect to GND. |
| 23 | MTLIN | I | Auto metal detection input pin |
| 24 | AMSIN | I | At AMS, music with/without detection input pin |
| 25 | NIL | I | Connect to GND. |
| 26 | DOLON | I/O | DOLBY control input/output pin |
| 27 | DOLBC | I/O | DOLBY B/C select control input/output pin |
| 28 | TAPMUT | O | TAPE mute control output pin |
| 29 | MTLON | O | METAL control output pin |
| 30 | RDSSI | I | RDS data input pin |
| 31 | $\overline{8MIN}$/4MIN | I | $\overline{8}$ MIN./4 MIN. select input pin (Fixed at "H" (C750RDS), "L" (C850RDS).) |
| 32 | CM-ON | O | Capstan motor control output pin |
| 33 | TAP-ON | O | TAPE power control output pin |
| 34 | LMEJ | O | Loading motor control output pin (Eject direction) |
| 35 | LMLOD | O | Loading motor control output pin (Loading direction) |
| 36 | NIL | I | Connect to GND. |
| 37 | REEL | I | Rotation detection input pin of reel table. |
| 38 | PLL-DI | I | PLL data input pin |
| 39 | PLL-DO | O | PLL data output pin |
| 40 | PLL-CLK | O | PLL clock output pin |
| 41 | CE | O | PLL chip enable output pin |
| 42 | RQ | O | Bus interface request output pin |
| 43 | LINK-OFF | O | Bus interface link output pin |
| 44 | SCK | I | Bus interface serial clock-in input pin |
| 45 | SI | I | Bus interface serial data-in input pin |
| 46 | SO | I/O | Bus interface serial data-out input/output pin |
| 47 | VDD | — | Power supply pin |
| 48 | AVDD | — | Power supply pin for A/D conversion input. |
| 49 | VREF | — | Reference voltage input pin for A/D conversion input. (+ side) |
| 50 – 53 | — | I | Fixed at "L". |
| 54 | DIST-SEL1 | I | Destination select setting pin (Fixed at "H" (German model), "L" (Except German model).) |
| 55 | DIST-SEL0 | I | Destination select setting pin (Fixed at "L".) |

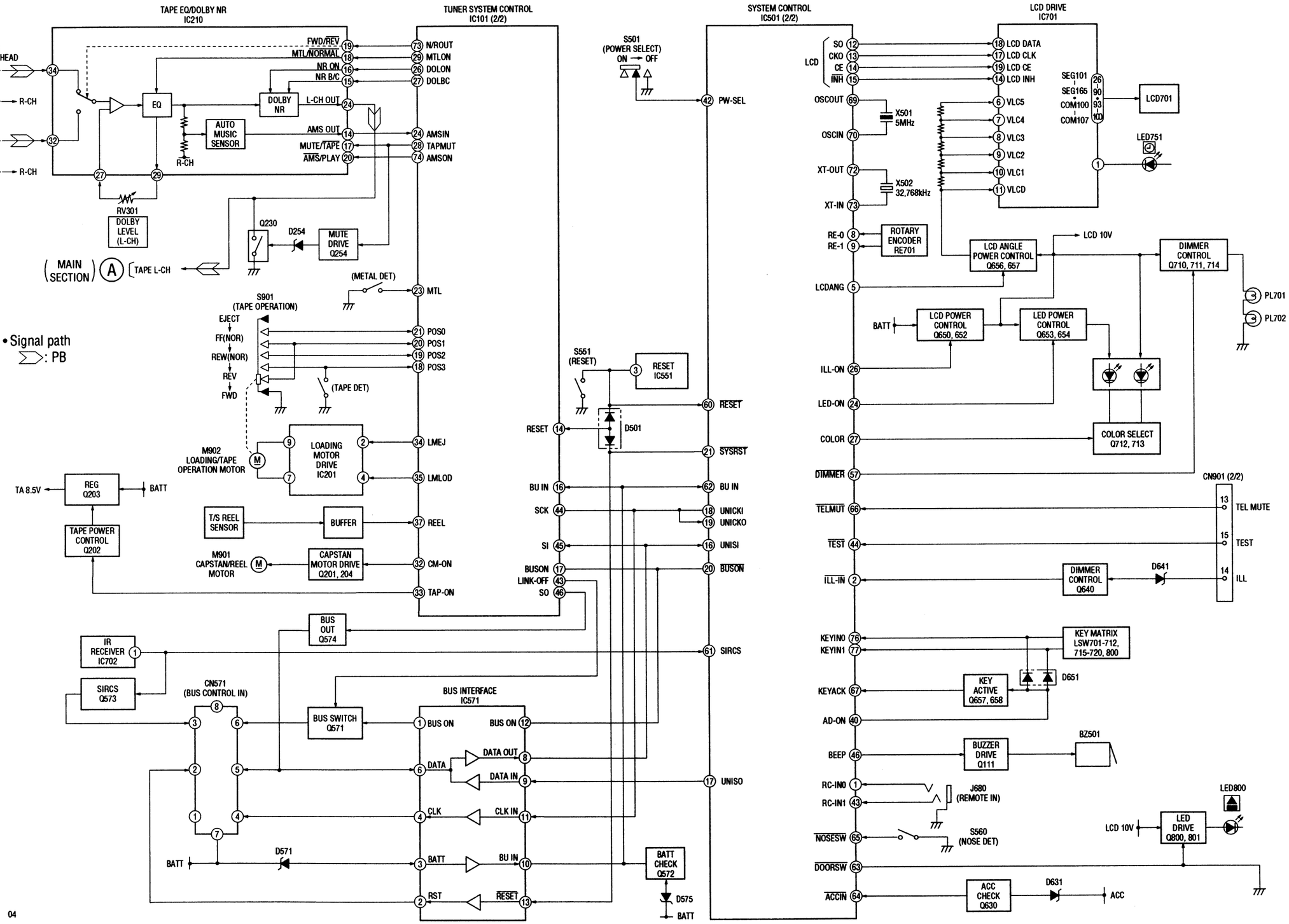
| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 56 | S-METER(AM) | I | MW S-meter voltage detection input pin |
| 57 | S-METER(FM) | I | FM S-meter voltage detection input pin |
| 58 – 60 | — | — | GND |
| 61 | MODE2 | O | TUNER-ON output pin |
| 62 | — | O | Not used. |
| 63 | RECEIVE | O | SEEK OUT output pin |
| 64 | AM-ON | O | AM-ON output pin |
| 65 | MODE1 | O | FM-ON output pin |
| 66 | TUNER-MUTE | O | MUTE output pin |
| 67 | AF-SEEK | O | Not used. |
| 68 | — | — | Not used. |
| 69 | MUTE-SEL | O | Fixed at "H". |
| 70 | ST-IN/MONO | I/O | Used in conjunction with ST indicator input/MONO output. |
| 71 | SD-IN | I | Signal detecter input pin |
| 72 | — | — | Not used. |
| 73 | N/ROUT | O | Forward/Reverse detection output pin |
| 74 | $\overline{\text{AMSON}}$ | O | TAPE AMS control output pin |
| 75 | — | — | Not used. |
| 76 | $\overline{\text{PDWN}}$ | O | Power down output pin |
| 77 | RESET | O | Reset/Power down output pin |
| 78 | CE | O | Data OK/NG setting through D0 to D3. |
| 79 | $\overline{\text{CE}}$ | O | Data OK/NG setting through D0 to D3. |
| 80 | $\overline{\text{WR}}$ | O | Write pulse output pin of data (D0 to D3). |

• **IC501 μPD78058GC-462-3B9 (SYSTEM CONTROL)**

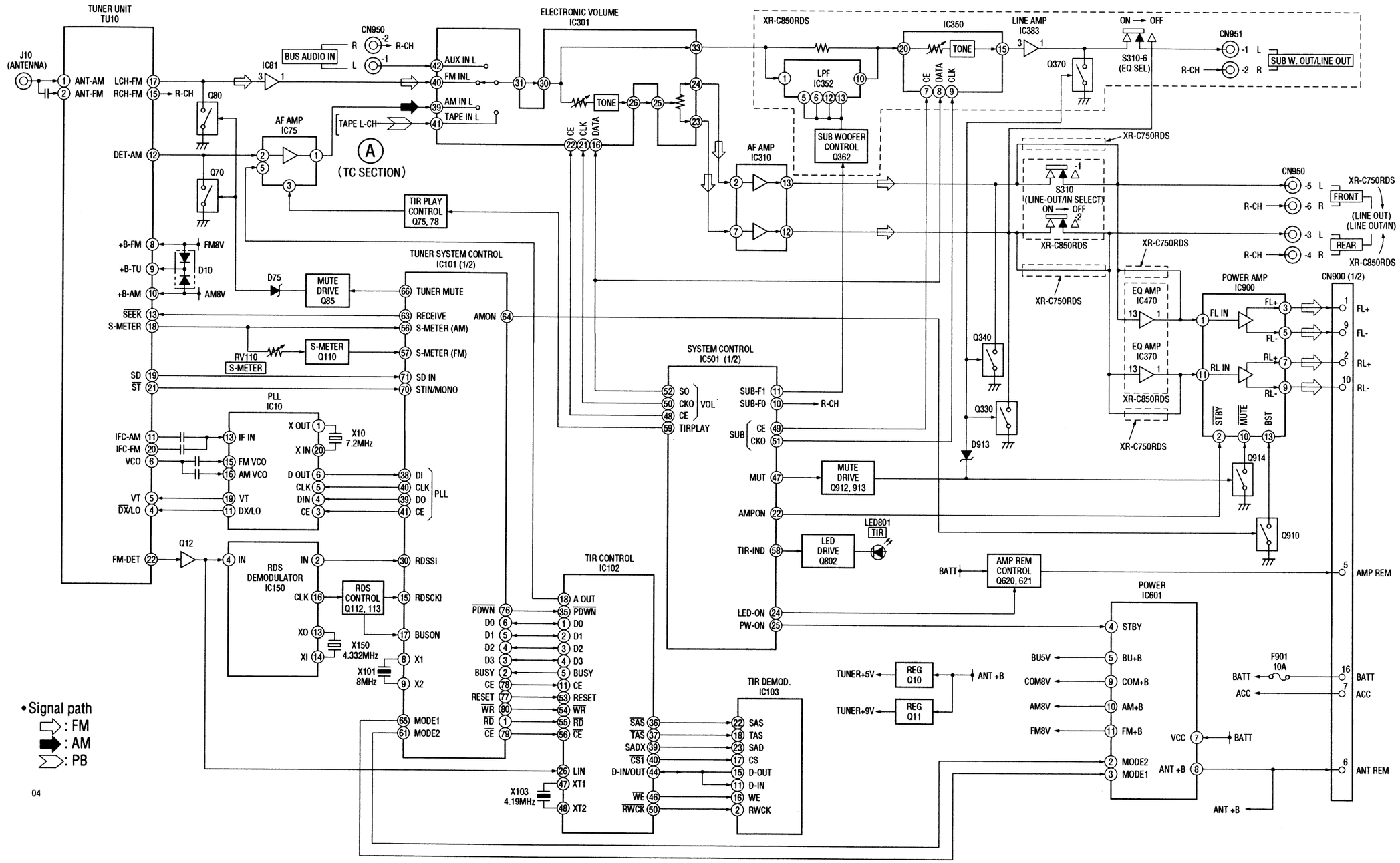
| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 1 | RC-IN0 | I | Rotary commander A/D conversion input 0 |
| 2 | $\overline{\text{ILL-IN}}$ | I | Illumination line detection input |
| 3 | NIL | I | Connect to GND. |
| 4 | AVSS | — | GND for A/D conversion. |
| 5 | LCDANG | O | Output for LCD view angle adjustment. |
| 6 | NIL | I | Connect to GND. |
| 7 | AVREF | — | Reference voltage for D/A conversion. |
| 8 | RE-0 | I | Rotary encoder input 0 |
| 9 | RE-1 | I | Rotary encoder input 1 |
| 10 | SUB-F0 | O | SUB.W OUT control output (C850RDS) |
| 11 | SUB-F1 | O | SUB.W OUT control output (C850RDS) |
| 12 | LCDSO | O | LCD serial data output |
| 13 | LCDCKO | O | LCD serial clock output |
| 14 | LCDCE | O | LCD serial chip enable output |
| 15 | $\overline{\text{LCDINH}}$ | O | LCD blank display control output |
| 16 | UNISI | I | Serial data input |
| 17 | UNISO | O | Serial data output |
| 18 | UNICKI | I | Serial clock input |
| 19 | UNICKO | O | Serial clock output |
| 20 | $\overline{\text{BUSON}}$ | O | BUS ON control output |
| 21 | $\overline{\text{SYSRST}}$ | O | System reset control output |
| 22 | AMPON | O | Power amplifier power control output |
| 23 | — | — | Not used. |
| 24 | LED-ON | O | LED power control output |
| 25 | PW-ON | O | System power control output |
| 26 | ILL-ON | O | Illumination power control output |
| 27 | COLOR | I/O | Illumination color select control input/output |
| 28 | NCO | — | Not used. |
| 29 – 32 | NIL | I | Connect to GND. |
| 33 | GND | — | GND of microcomputer. |
| 34, 35 | NIL | I | Connect to GND. |
| 36 – 39 | NCO | — | Not used. |
| 40 | AD-ON | O | Power control output for A/D conversion. |
| 41 | NCO | — | Not used. |
| 42 | PW-SEL | I | Power select initial setting input |
| 43 | RC-IN1 | I | Rotary commander A/D conversion input 1 |
| 44 | $\overline{\text{TEST}}$ | I | TEST mode setting input |
| 45 | $\overline{\text{EQ-SEL}}$ | I | Equalizer connection with/without initial setting input |
| 46 | BEEP | O | Buzzer control output |
| 47 | MUT | O | System mute control output |
| 48 | VOLCE | O | Electric volume serial chip enable output |
| 49 | SUBCE | O | Sub volume serial chip enable output |
| 50 | VOLCKO | O | Electric volume serial clock output |
| 51 | SUBCKO | O | Sub volume serial clock output |
| 52 | VOLSO | O | Electric volume serial data output |
| 53 – 56 | NCO | — | Not used. |
| 57 | $\overline{\text{DIMMER}}$ | I/O | Dimmer control input/output |

| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 58 | TIR-IND | O | LED drive output at TIR ON setting. |
| 59 | TIRPLAY | O | TIR playback audio control output |
| 60 | $\overline{\text{RESET}}$ | I | Reset input |
| 61 | SIRCS | I | Remote commander input |
| 62 | BU-IN | I | Back-up power detection input |
| 63 | $\overline{\text{DOORSW}}$ | I | Door open/close switch |
| 64 | $\overline{\text{ACCIN}}$ | I | Accessory power detection input |
| 65 | $\overline{\text{NOSESW}}$ | I | Detachable panel detection input |
| 66 | $\overline{\text{TELMUT}}$ | I | Telephone mute detection input |
| 67 | KEYACK | I | Key input acknowledge |
| 68 | VDD | — | Power supply for microcomputer. |
| 69 | OSCOUT | O | Main ceramic oscillator output pin (5 MHz) |
| 70 | OSCIN | I | Main ceramic oscillator input pin (5 MHz) |
| 71 | GND | — | GND for microcomputer. |
| 72 | XT-OUT | O | Sub crystal oscillator output pin (32.768 kHz) |
| 73 | XT-IN | I | Sub crystal oscillator input pin (32.768 kHz) |
| 74 | AVDD | — | Power supply for A/D conversion. |
| 75 | AVREF | — | Reference power supply for A/D conversion. |
| 76, 77 | KEYIN0, 1 | I | Key input 0, 1 |
| 78, 79 | KEYSEL0, 1 | I | Key function select setting input 0, 1 |
| 80 | DESTSEL | I | Fixed at "L". |

## 6-2. BLOCK DIAGRAM — TC SECTION —



## 6-3. BLOCK DIAGRAM — MAIN SECTION —



## 6-4. PRINTED WIRING BOARDS — MAIN SECTION —

• **Semiconductor Location**

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| D10 | E-12 | (IC351) | E-5 |
| D11 | E-14 | (IC352) | E-5 |
| D12 | E-8 | (IC370) | D-8 |
| D13 | H-13 | (IC383) | D-5 |
| D75 | H-9 | IC410 | E-6 |
| D110 | G-4 | (IC470) | D-8 |
| D201 | G-21 | IC501 | F-4 |
| D202 | G-21 | IC551 | F-21 |
| D250 | F-14 | IC571 | D-3 |
| D254 | G-7 | IC601 | D-21 |
| D501 | E-3 | IC900 | B-17 |
| D551 | E-2 | | |
| D552 | E-2 | Q10 | E-15 |
| D553 | I-20 | Q11 | E-15 |
| D560 | I-16 | Q12 | H-13 |
| D571 | B-3 | Q70 | H-12 |
| D572 | D-20 | Q75 | G-16 |
| D573 | C-21 | Q78 | G-7 |
| D574 | C-22 | Q80 | H-9 |
| D575 | D-20 | Q85 | G-8 |
| D576 | D-2 | Q90 | G-9 |
| D577 | B-3 | Q110 | H-9 |
| D620 | C-19 | Q111 | I-20 |
| D630 | C-4 | Q112 | G-5 |
| D631 | C-4 | Q113 | G-5 |
| D640 | C-4 | Q201 | H-1 |
| D641 | C-4 | Q202 | H-1 |
| D650 | H-21 | Q203 | G-21 |
| D651 | F-5 | Q204 | G-2 |
| D652 | I-2 | Q230 | E-8 |
| D664 | I-4 | Q240 | E-7 |
| D665 | I-18 | Q254 | G-7 |
| D668 | I-19 | Q330 | C-10 |
| D669 | I-18 | Q340 | C-10 |
| D670 | I-4 | (Q362) | E-4 |
| D671 | H-14 | (Q365) | E-4 |
| D672 | I-13 | Q370 | B-15 |
| D680 | C-2 | Q430 | C-10 |
| D682 | C-22 | Q440 | D-10 |
| D683 | C-21 | (Q470) | C-14 |
| D900 | C-20 | Q571 | D-3 |
| D901 | B-7 | Q572 | D-3 |
| D905 | B-19 | Q573 | D-2 |
| D910 | C-18 | Q574 | D-3 |
| D911 | C-6 | Q620 | C-5 |
| D920 | B-3 | Q621 | F-2 |
| | | Q630 | D-4 |
| IC10 | E-9 | Q640 | D-4 |
| IC75 | G-15 | Q650 | H-2 |
| IC81 | H-8 | Q651 | H-21 |
| IC101 | G-4 | Q652 | H-21 |
| IC102 | H-6 | Q654 | I-3 |
| IC103 | H-7 | Q655 | H-4 |
| IC150 | I-15 | Q656 | H-4 |
| IC201 | E-20 | Q657 | F-4 |
| IC210 | F-8 | Q658 | F-4 |
| IC301 | F-6 | Q910 | F-2 |
| IC302 | F-18 | Q912 | D-4 |
| IC310 | D-6 | Q913 | D-4 |
| (IC350) | D-5 | Q914 | E-4 |

( ) : XR-C850RDS only

**Note :**

- ○— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ● : Through hole.
- ■ : parts mounted on the conductor side.
- ▩ : Pattern on the side which is seen. (The other layer's patterns are not indicated.)
- Abbreviation
  G : German model

【MAIN BOARD】(SIDE A)

【MAIN BOARD】(SIDE B)

CN950-1,-2 BUS AUDIO IN

J10 (ANTENNA)

TUIO TUNER UNIT

XR-C750RDS

XR-C850RDS

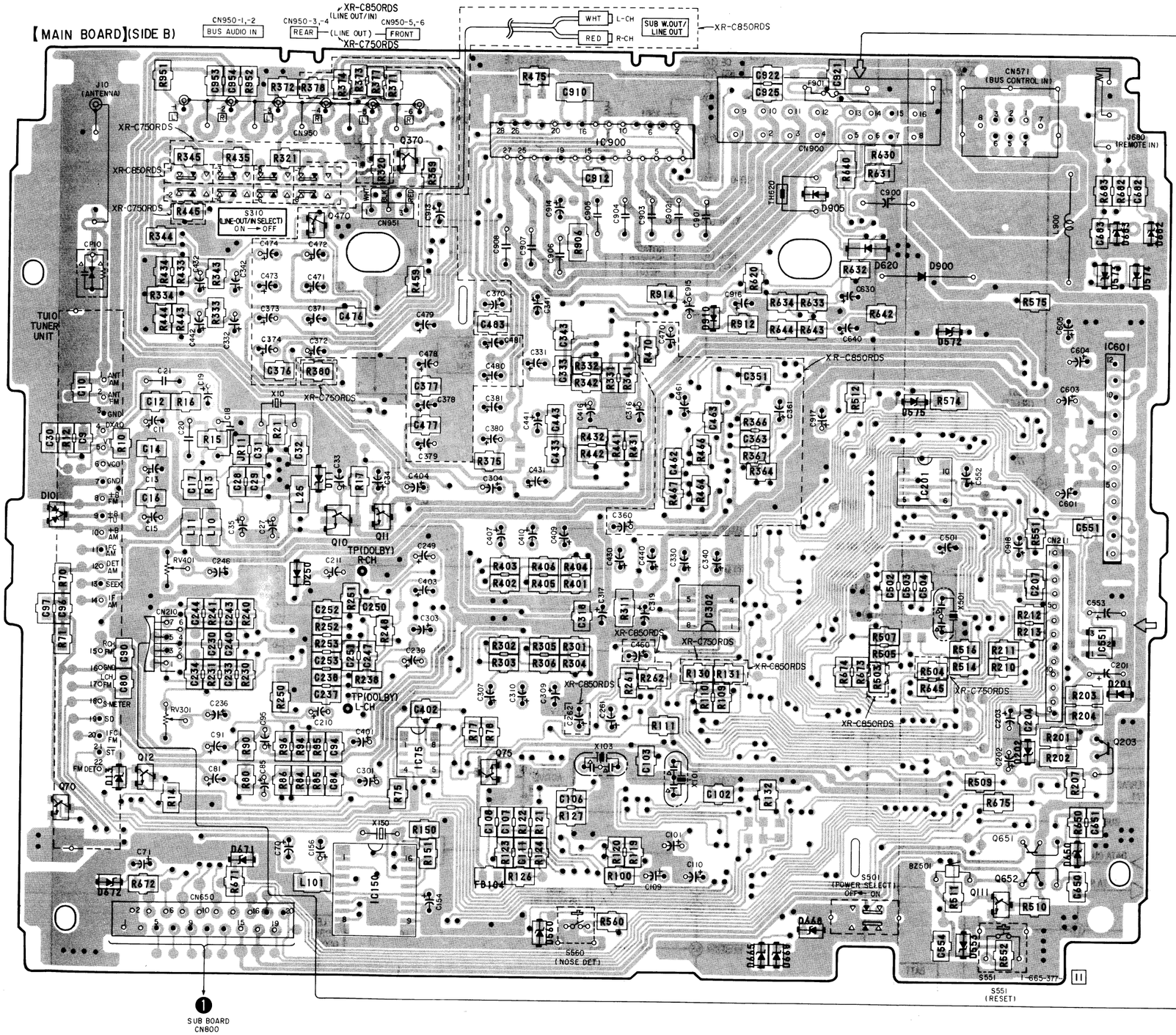
C850RDS: G MODEL

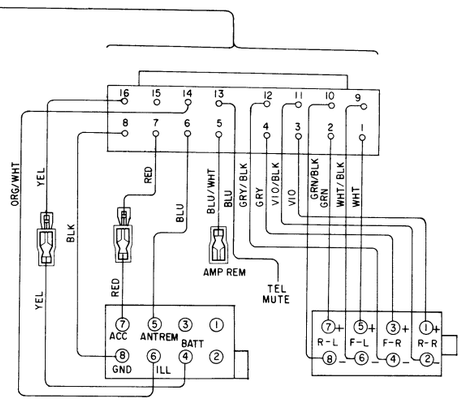
EXCEPT G MODEL

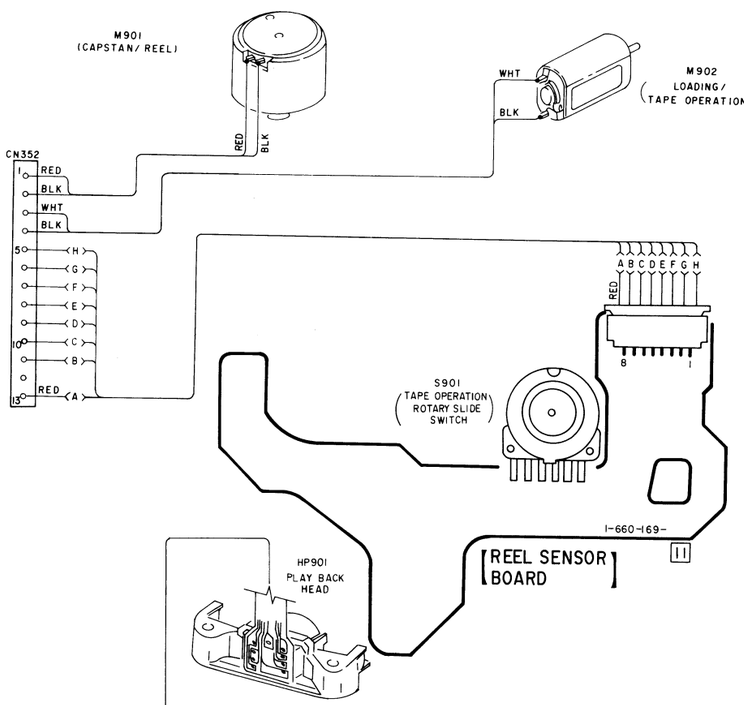
1-665-377-11

SUB BOARD CN800

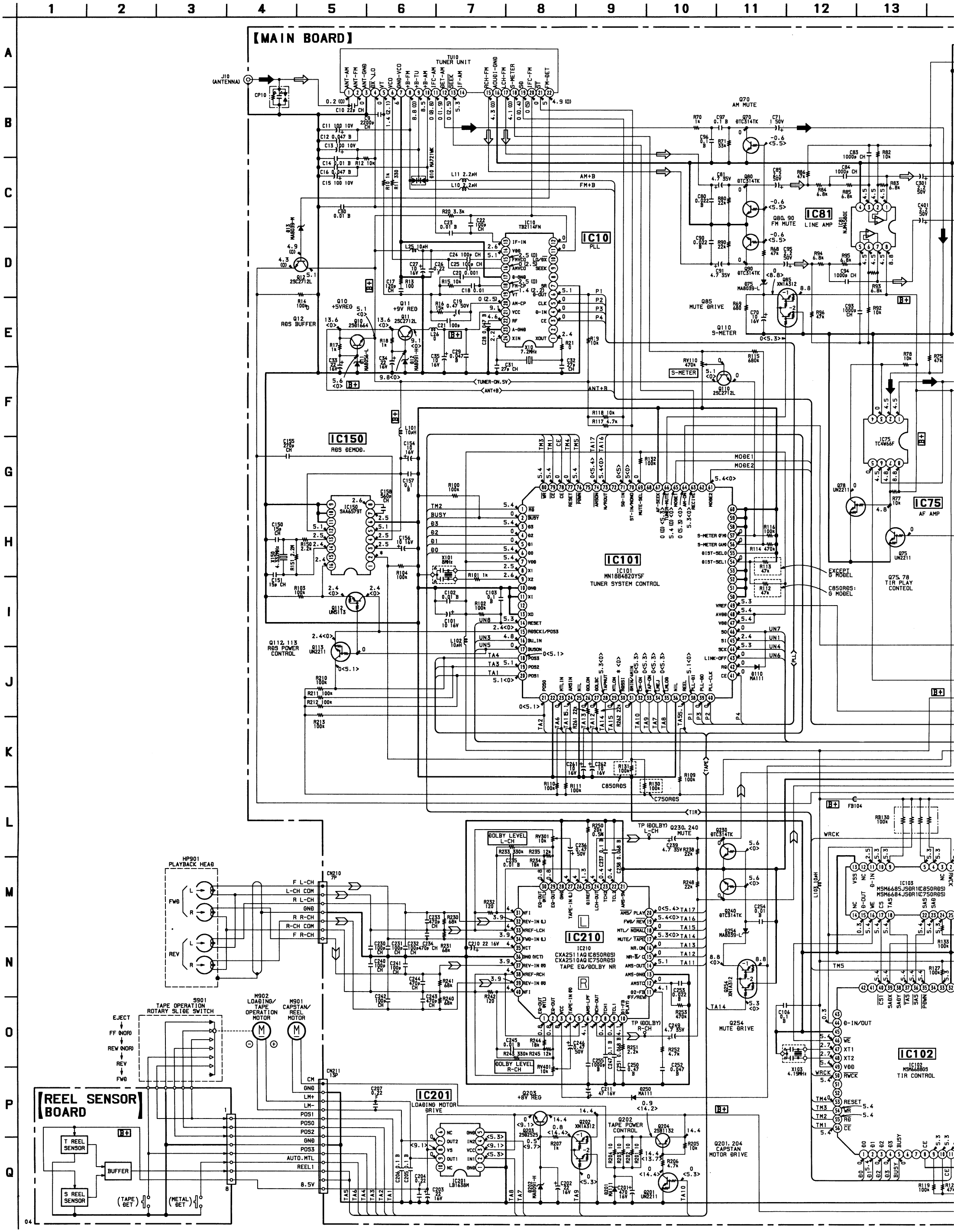
【MAIN BOARD】(SIDE B)

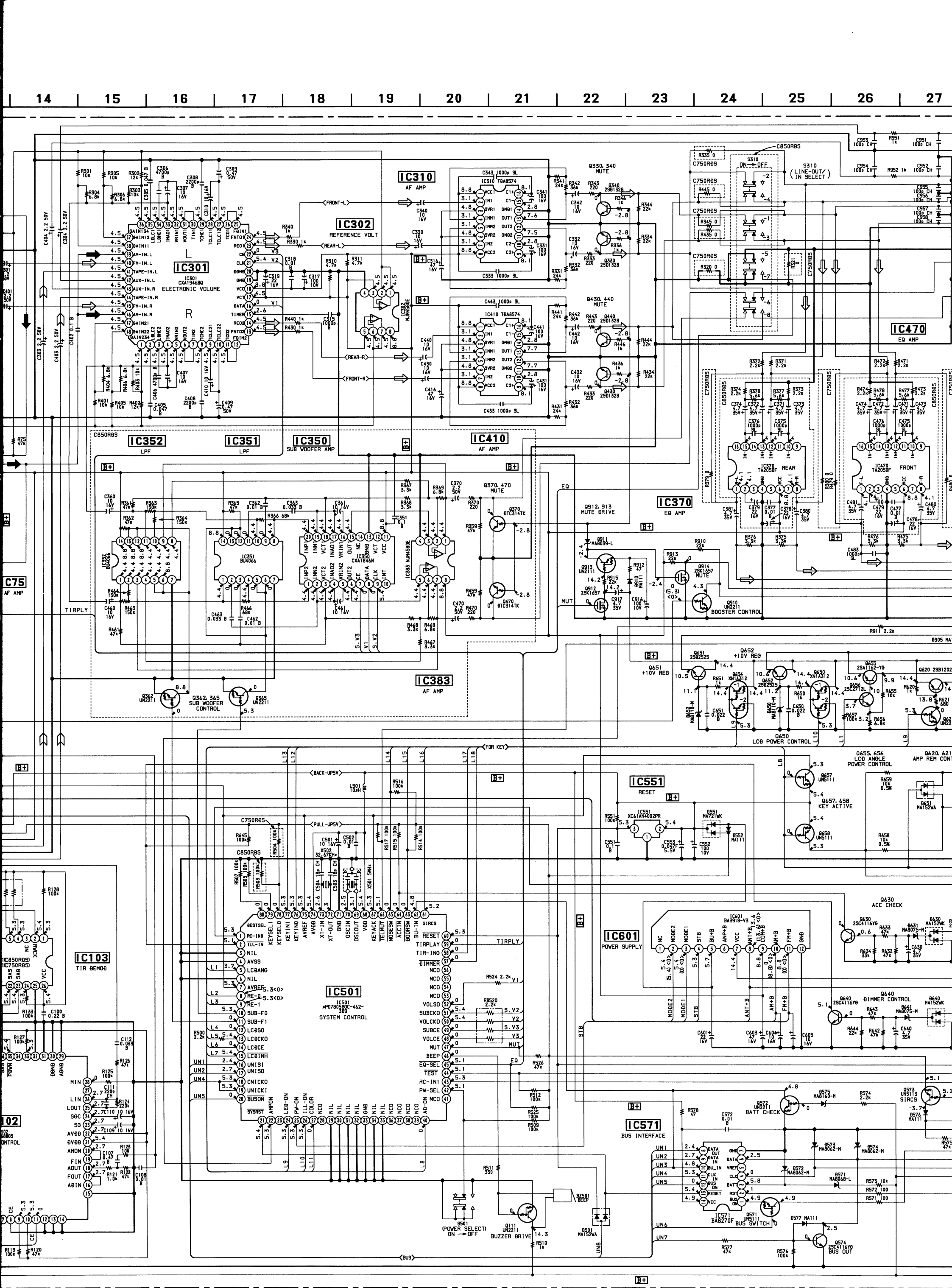


## 6-5. SCHEMATIC DIAGRAM — MAIN SECTION — • Refer to page 53 for IC Block Diagrams.




14
15
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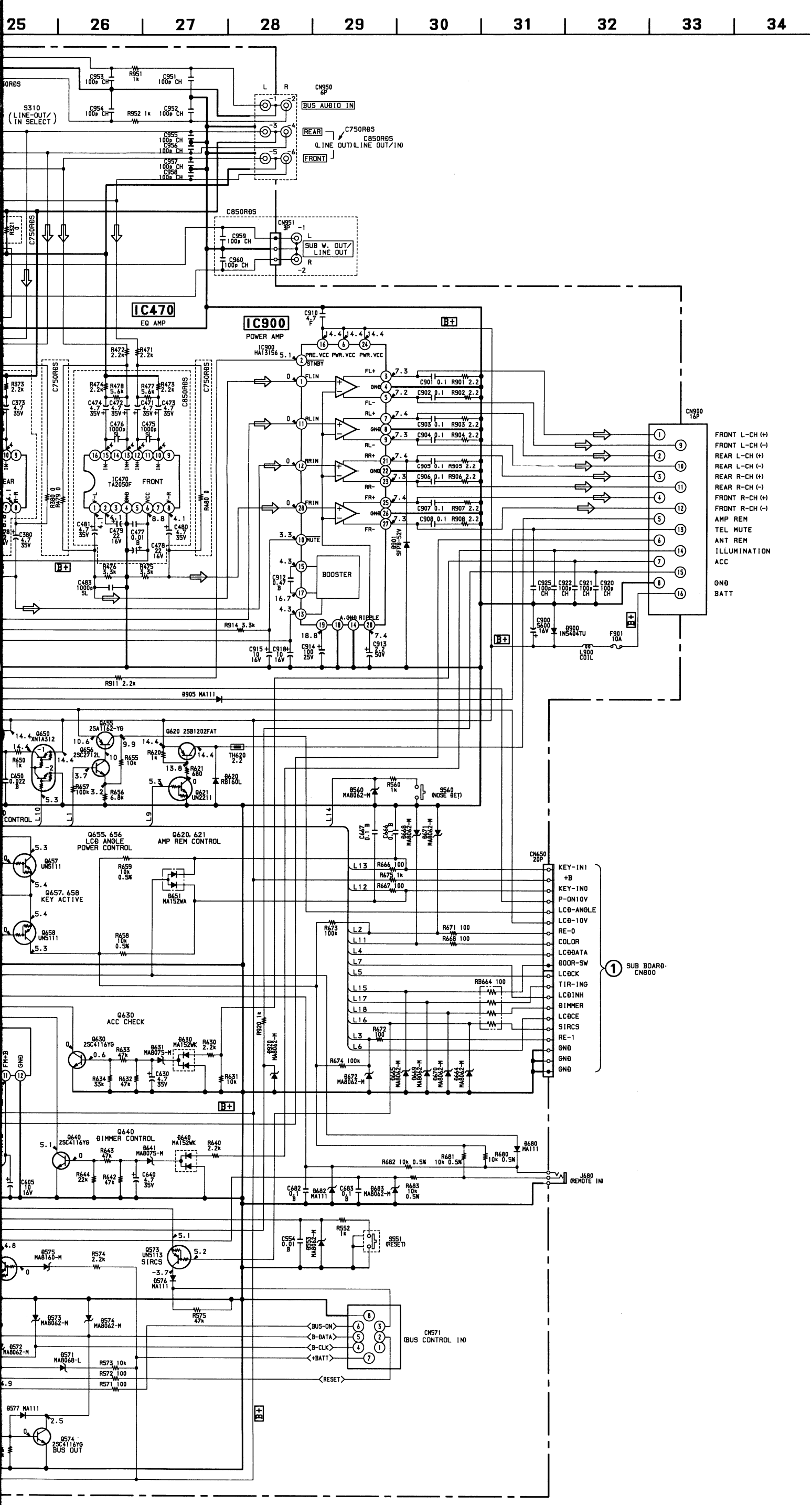
23
24
25
26
27
IC301
CXA1946BQ
ELECTRONIC VOLUME
IC302
REFERENCE VOLT
IC310
AF AMP
IC310 T6A8574
IC410 T6A8574
Q330, 340
MUTE
Q430, 440
MUTE
IC470
EQ AMP
IC352
LPF
IC351
LPF
IC350
SUB WOOFER AMP
IC410
AF AMP
IC370
EQ AMP
IC383
AF AMP
Q362, 365
SUB WOOFER
CONTROL
Q370, 470
MUTE
Q912, 913
MUTE DRIVE
Q910
BOOSTER CONTROL
Q651
+10V REG
Q652
+10V REG
Q650
LCD POWER CONTROL
Q655, 656
LCD ANGLE
POWER CONTROL
Q620, 621
AMP REM CONT
IC551
RESET
Q657, 658
KEY ACTIVE
IC601
POWER SUPPLY
Q630
ACC CHECK
Q640
DIMMER CONTROL
IC501
SYSTEM CONTROL
IC103
TIR DEMOD
C75
AF AMP
IC571
BUS INTERFACE
Q572
BATT CHECK
Q573
SIRCS
Q571
BUS SWITCH
Q574
BUS OUT
S310
ON → OFF
S310
(LINE-OUT/IN SELECT)
S501
(POWER SELECT)
ON → OFF
Q111
BUZZER DRIVE
FRONT-L
REAR-L
REAR-R
FRONT-R
TIRPLY
MUT
EQ
BACK-UP5V
PULL-UP5V
FOR KEY
BUS
C850R8S
C750R8S




**Note :**

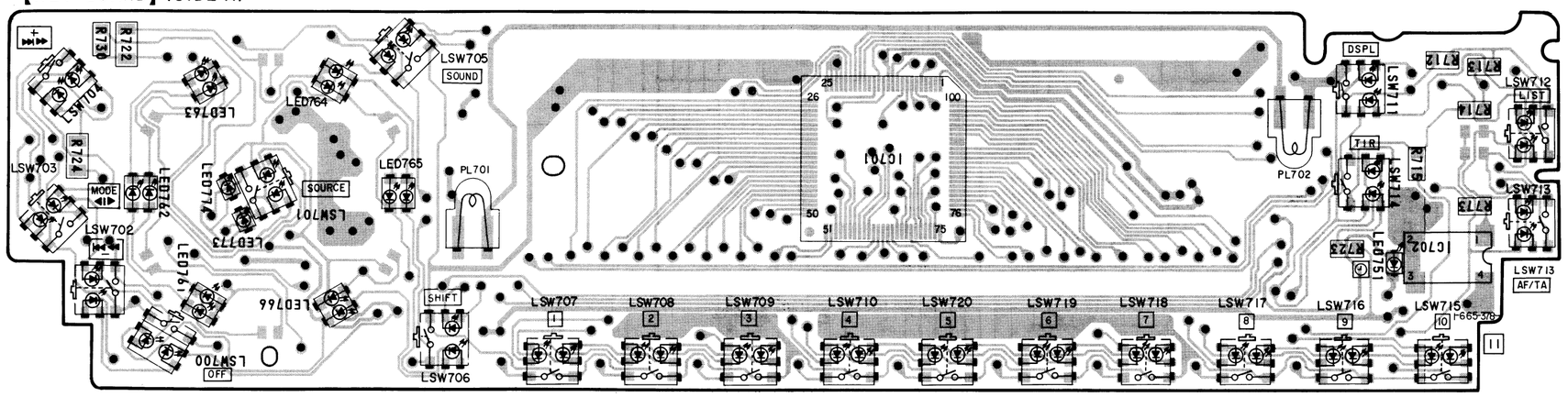
- All capacitors are in μF unless otherwise noted. pF : μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from ACC and BATT terminals.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
  ( ) : MW
  < > : PB
  * : impossible measurement point.
- Voltage are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerance.
- Signal path.
  ⇨ : FM
  ➡ : MW
  ⇨ : PB
- Abbreviation
  G : German model

## 6-6. PRINTED WIRING BOARD — PANEL SECTION —

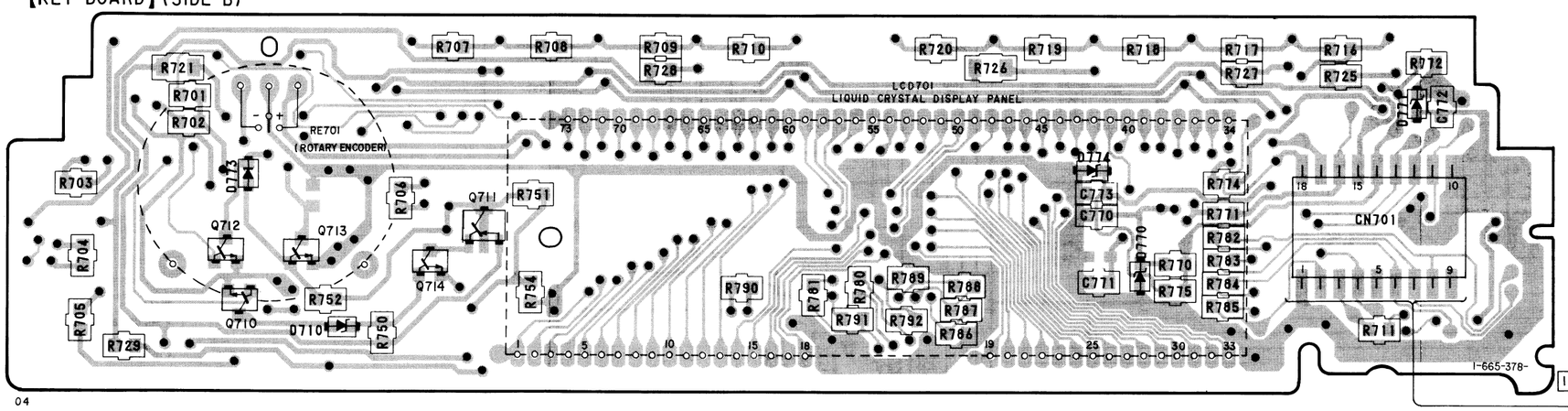
• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D710 | F-3 |
| D770 | F-8 |
| D771 | E-10 |
| D773 | E-2 |
| D800 | C-13 |
| D801 | C-13 |
| D802 | C-13 |
| D803 | C-13 |
| | |
| IC701 | B-6 |
| IC702 | B-10 |
| | |
| LED751 | B-10 |
| LED761 | C-2 |
| LED762 | B-2 |
| LED763 | A-2 |
| LED764 | A-3 |
| LED765 | B-3 |
| LED766 | C-2 |
| LED773 | E-2 |
| LED774 | B-2 |
| LED800 | A-12 |
| LED801 | B-12 |
| | |
| Q710 | F-2 |
| Q711 | F-4 |
| Q712 | F-2 |
| Q713 | F-3 |
| Q714 | F-3 |
| Q800 | C-12 |
| Q801 | C-12 |
| Q802 | C-12 |

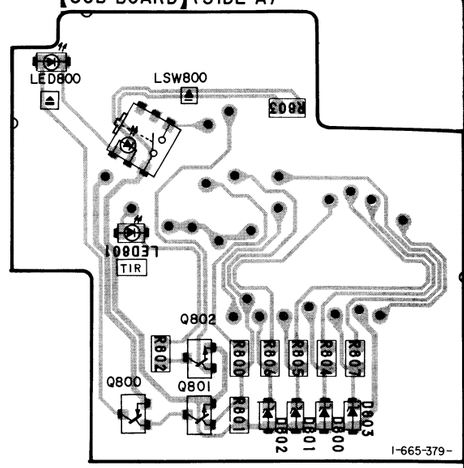
【KEY BOARD】(SIDE A)



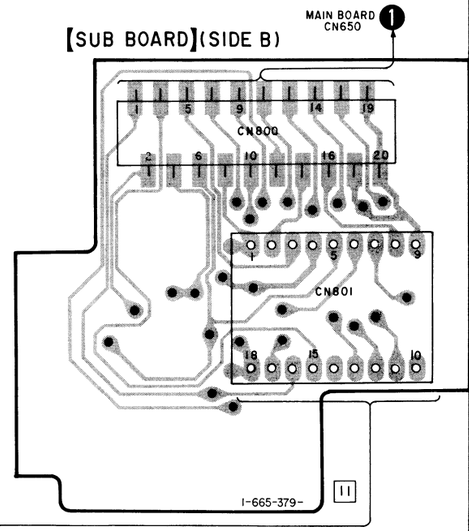

【KEY BOARD】(SIDE B)




【SUB BOARD】(SIDE A)



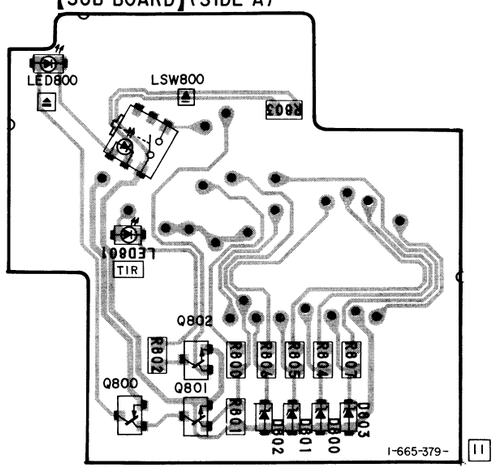

【SUB BOARD】(SIDE B)



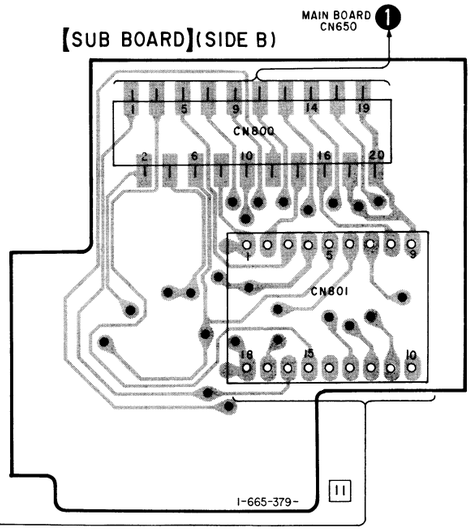

**Note :**

- ——— : parts extracted from the conductor side.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
  (The other layer's patterns are not indicated.)

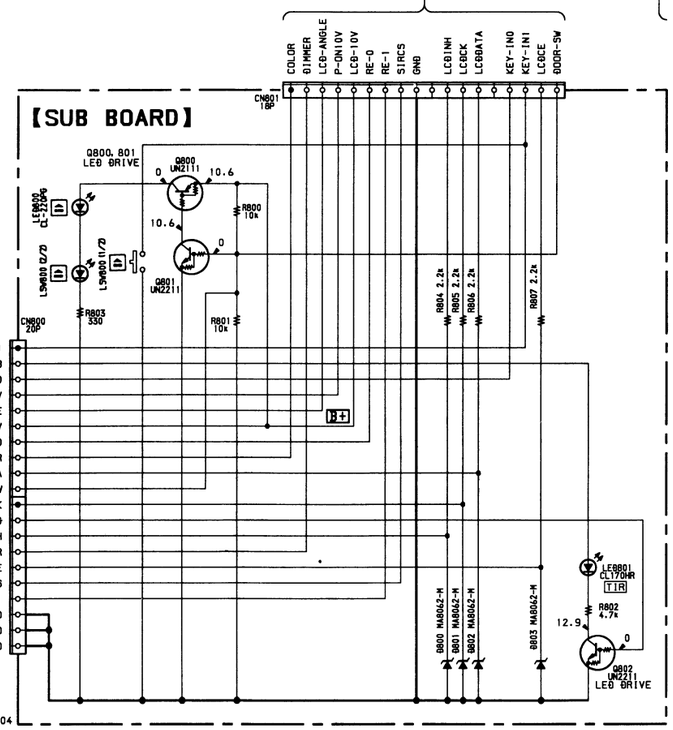
【SUB BOARD】(SIDE A)



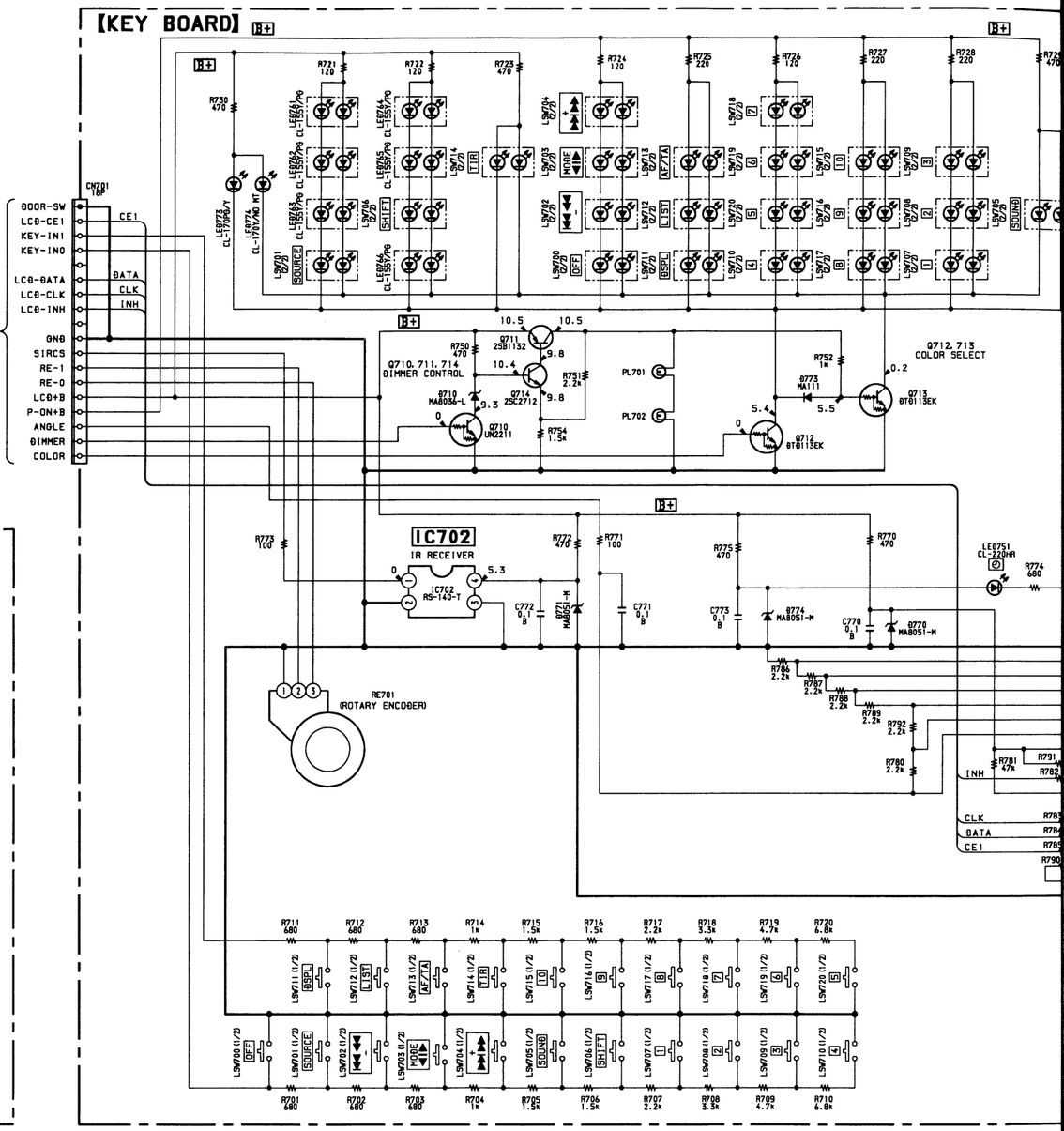

【SUB BOARD】(SIDE B)

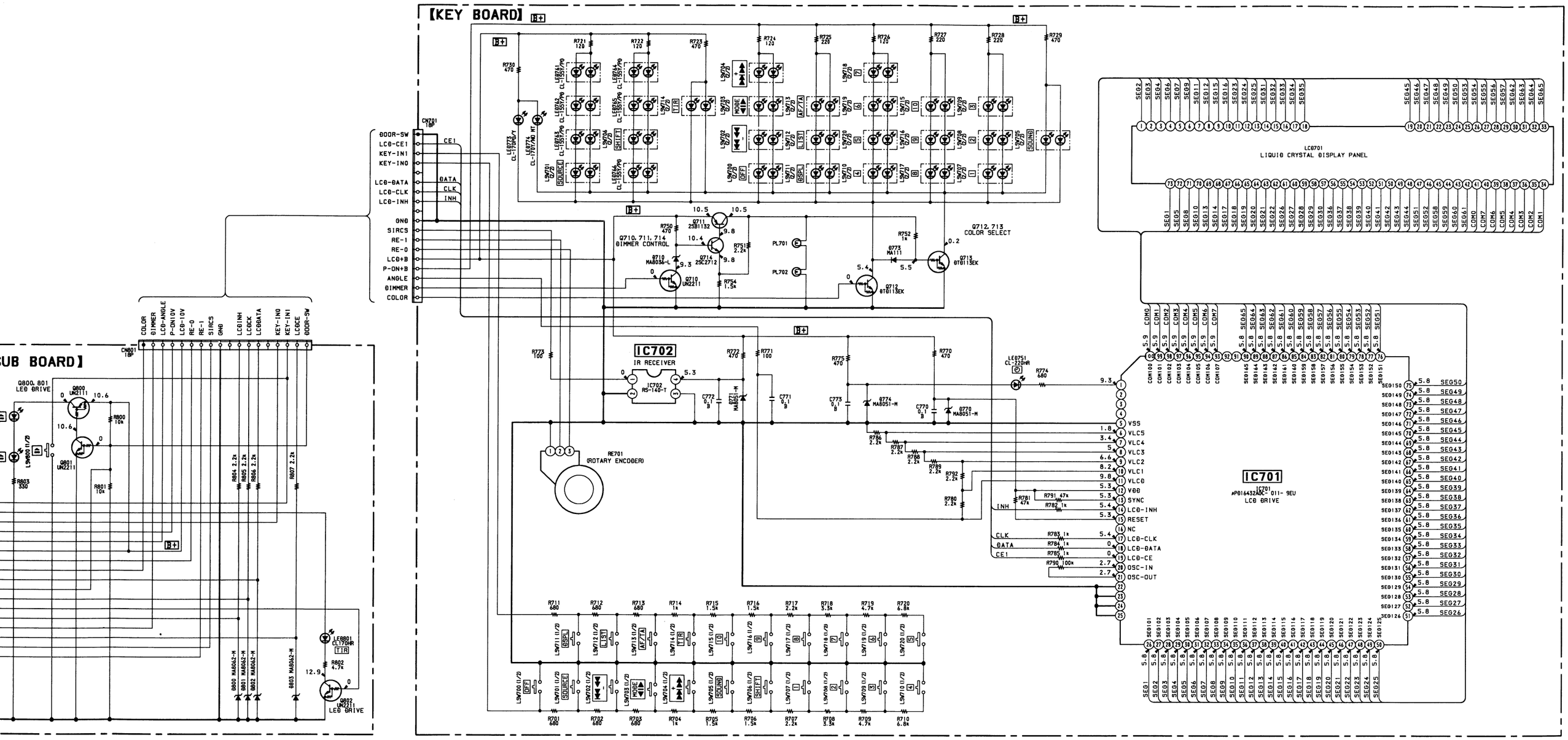



【SUB BOARD】




【KEY BOARD】



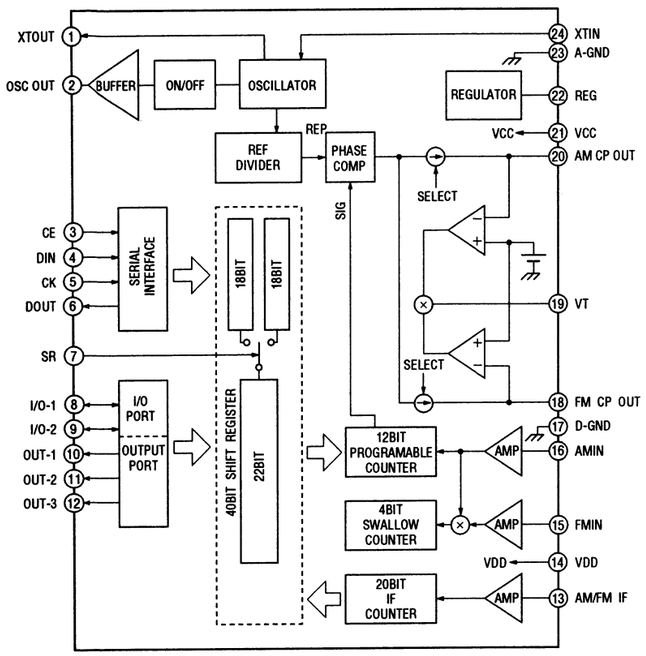



**Note :**

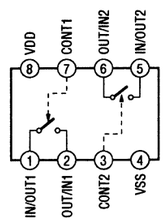
- All capacitors are in μF unless otherwise noted. pF : μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- B+ : B+ Line.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from ACC and BATT terminals.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
- Voltage are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerance.

## • IC Block Diagrams

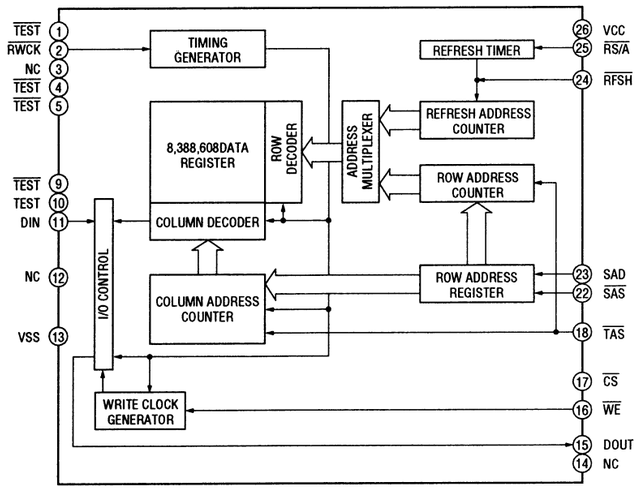
### IC10 TB2114FN



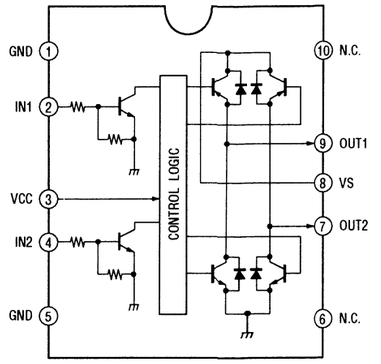

### IC75 TC4W66F



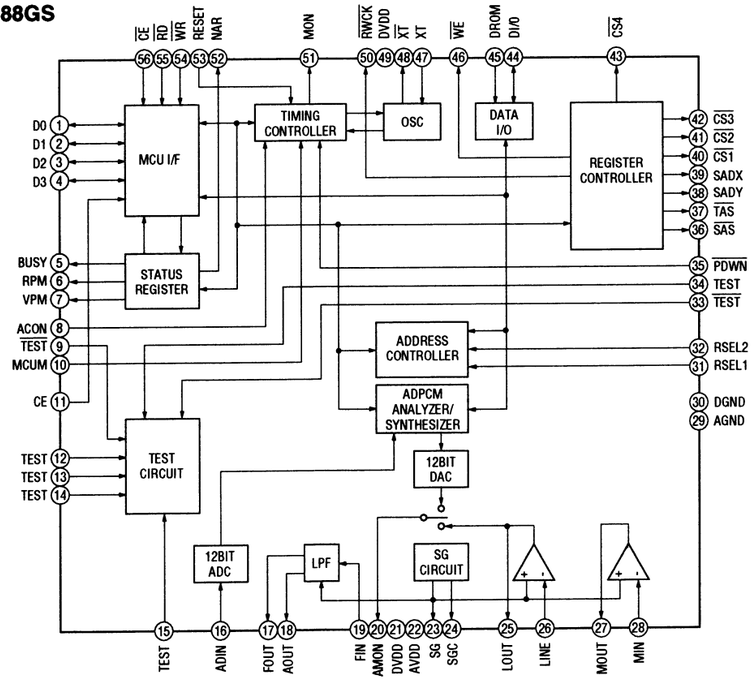

### IC103 MSM6684JSDR1 (XR-C750RDS)
### IC103 MSM6685JSDR1 (XR-C850RDS)



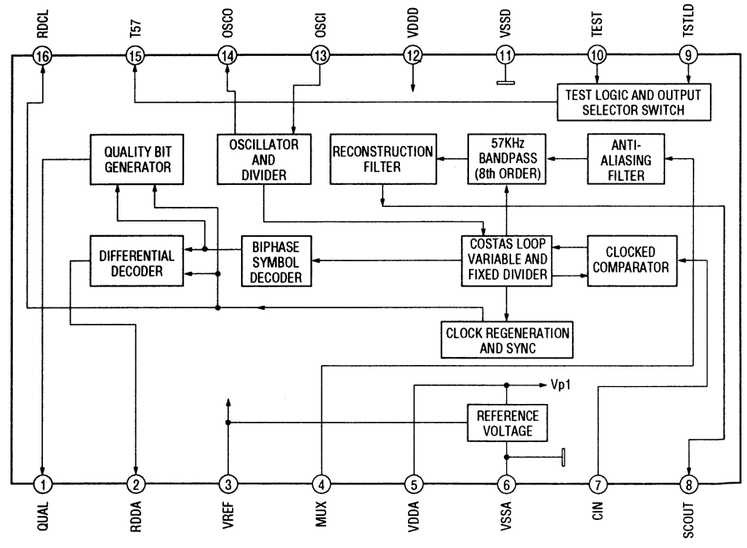

### IC201 LB1638M



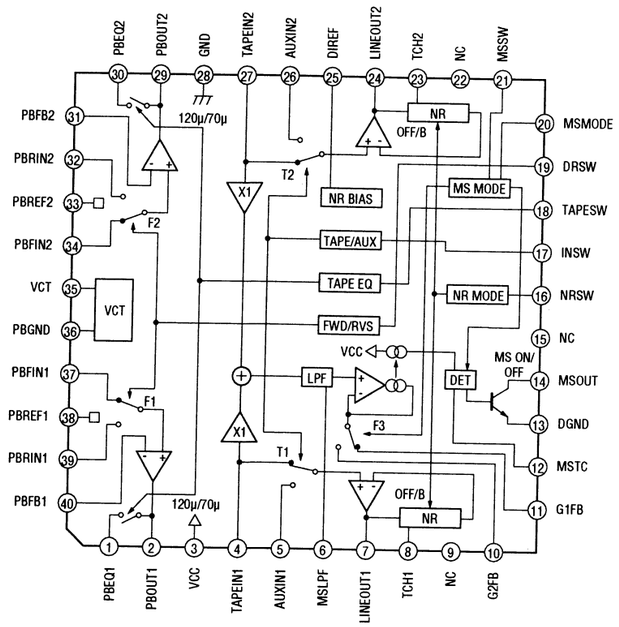

### IC102 MSM6688GS



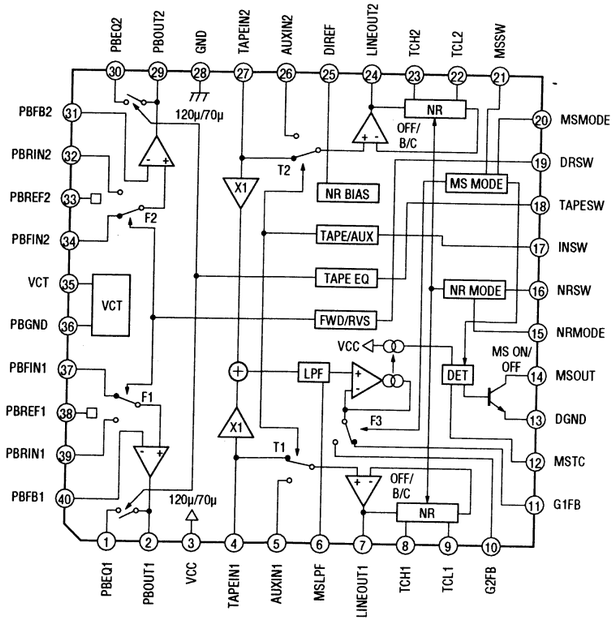

### IC150 SAA6579T



## IC210 CXA2510AQ (XR-C750RDS)

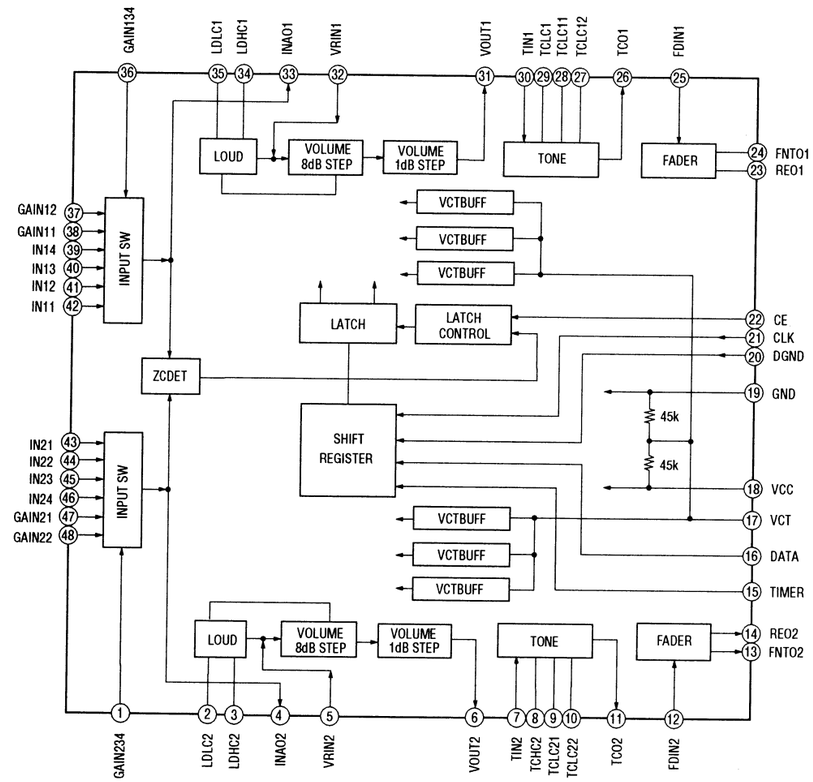



## IC210 CXA2511AQ (XR-C850RDS)

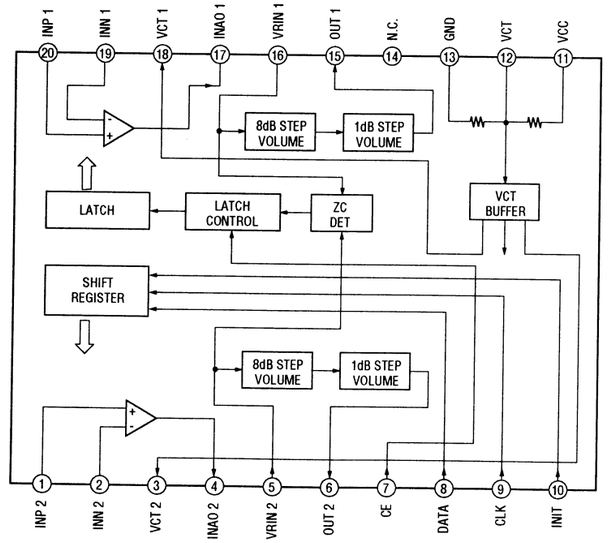




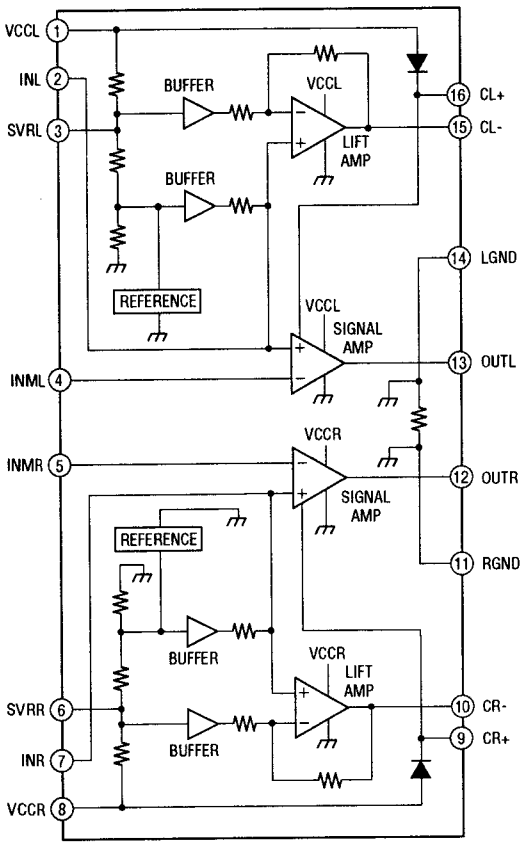

## IC301 CXA1946BQ



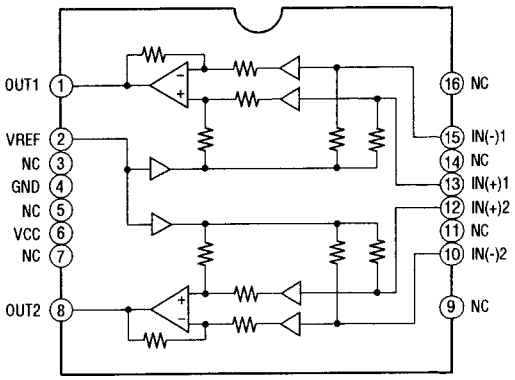

## IC350 CXA1846N (XR-C850RDS)



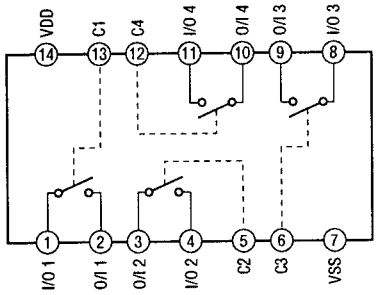
## IC310, 410 TDA8574



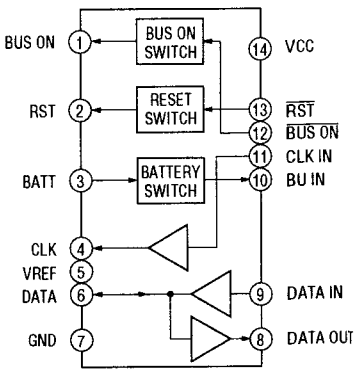

## IC370, 470 TA2050F (XR-C850RDS)



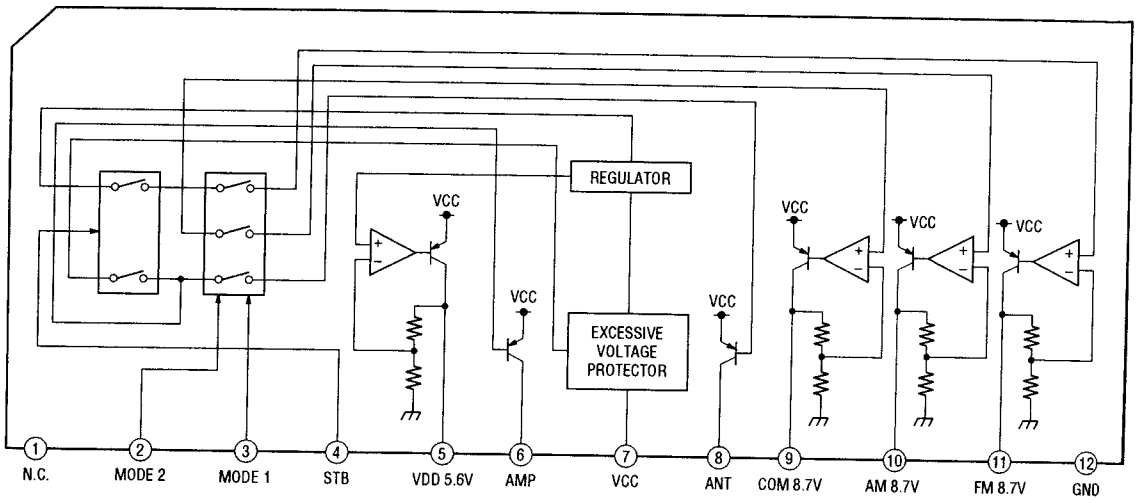

## IC351, 352 BU4066 (XR-C850RDS)




## IC571 BA8270F



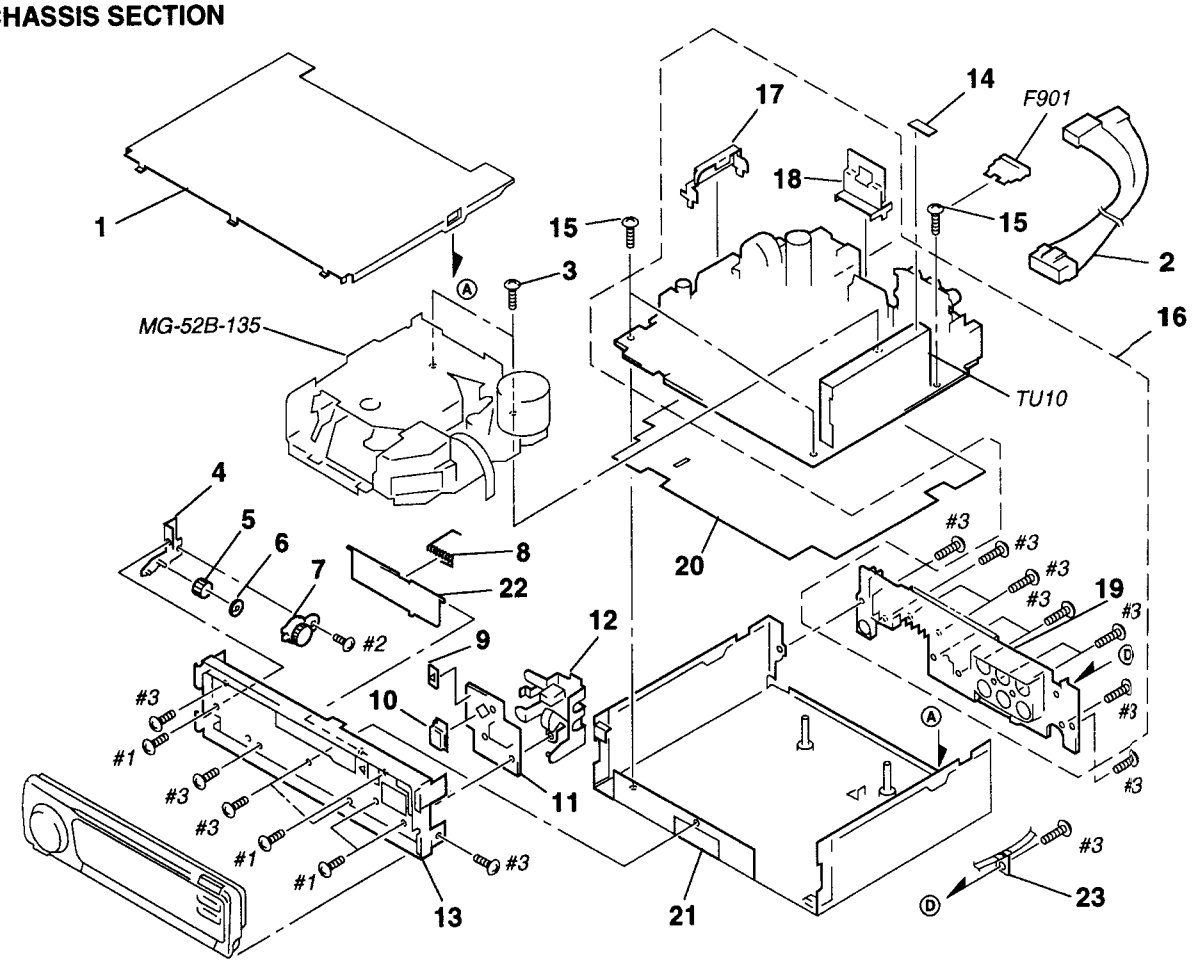
**IC601 BA3918-V3**



# SECTION 7
# EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
  G : German model
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

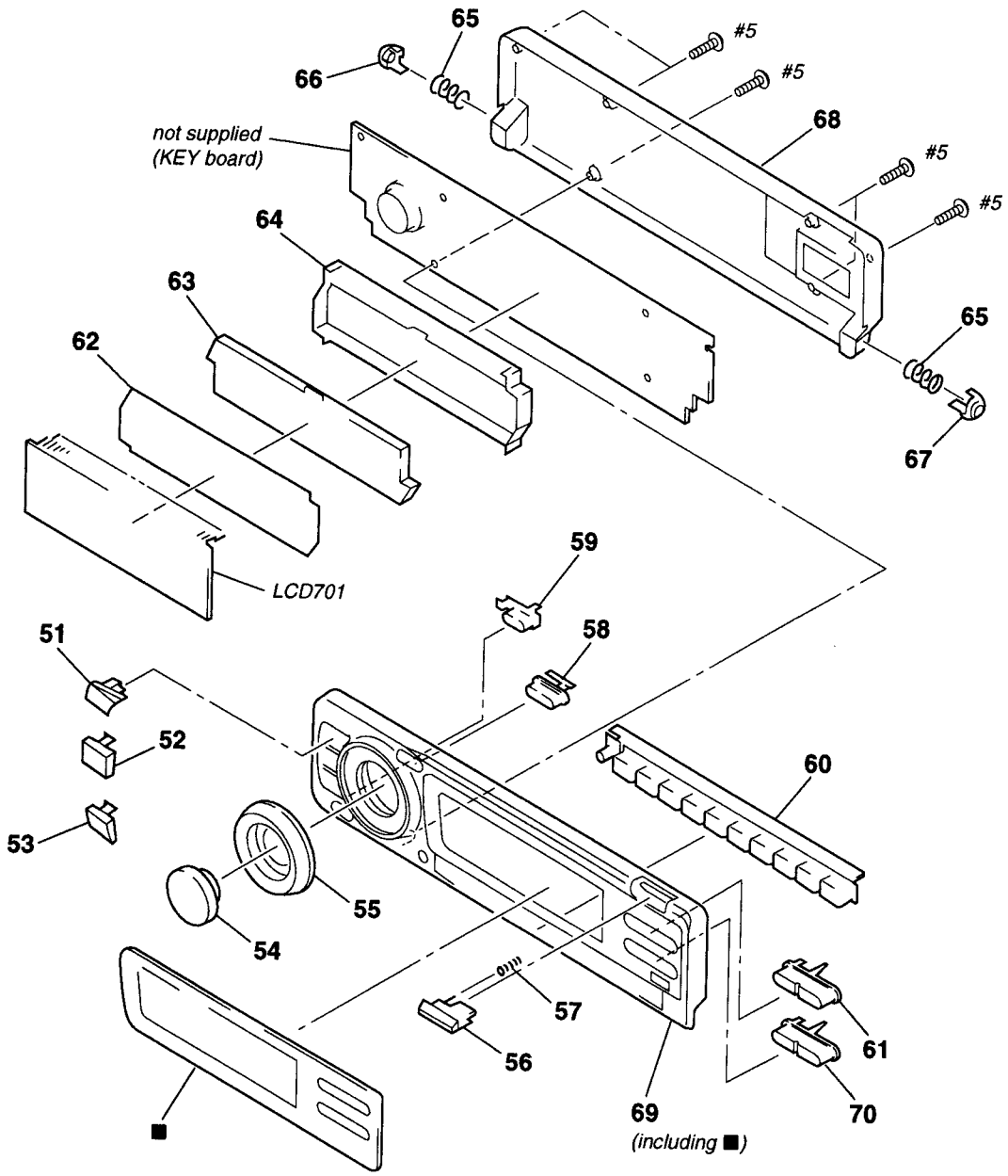
## 7-1. CHASSIS SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 1 | X-3373-362-1 | COVER ASSY | |
| 2 | 1-776-527-41 | CORD (WITH CONNECTOR) (ISO) (POWER) | |
| 3 | 3-919-171-01 | SCREW (2.6X6) (C TIGHT) | |
| 4 | X-3373-376-1 | BRACKET (GEAR) ASSY | |
| 5 | 3-011-170-01 | GEAR (HOLDER) | |
| 6 | 3-341-752-11 | WASHER, POLYETHYLENE | |
| 7 | 3-953-235-31 | DAMPER, OIL | |
| 8 | 3-913-076-01 | SPRING (C DOOR), TORSION | |
| 9 | 3-010-993-01 | PLATE (C DOOR), LIGHT GUIDE | |
| 10 | 3-010-996-01 | BUTTON (EJECT) | |
| * 11 | 1-665-379-11 | SUB BOARD | |
| 12 | X-3373-374-1 | LOCK ASSY | |
| 13 | X-3373-542-1 | PANEL SUB ASSY, SUB | |
| * 14 | 3-355-209-01 | PLATE (B), GROUND | |
| 15 | 3-915-923-01 | SCREW, GROUND POINT | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 16 | A-3309-956-A | MAIN BOARD, COMPLETE (C850RDS:AEP,UK) | |
| * 16 | A-3309-962-A | MAIN BOARD, COMPLETE (C850RDS:G) | |
| * 16 | A-3309-964-A | MAIN BOARD, COMPLETE (C750RDS:AEP,UK) | |
| * 16 | A-3309-966-A | MAIN BOARD, COMPLETE (C750RDS:G) | |
| * 17 | 3-011-078-01 | BRACKET (POWER IC) | |
| * 18 | 3-011-090-01 | BRACKET (AMP) | |
| * 19 | 3-011-077-01 | HEAT SINK (C850RDS) | |
| * 19 | 3-011-077-11 | HEAT SINK (C750RDS) | |
| * 20 | 3-012-196-01 | INSULATOR (C750RDS) | |
| * 20 | 3-012-211-01 | INSULATOR (C850RDS) | |
| * 21 | X-3373-384-1 | CHASSIS ASSY | |
| 22 | 3-922-165-91 | DOOR, CASSETTE | |
| 23 | 1-782-246-31 | CORD (WITH CONNECTOR) (SUB W.OUT/LINE OUT) (C850RDS) | |
| F901 | 1-532-877-11 | FUSE (BLADE TYPE) (AUTO FUSE) 10A | |
| TU10 | A-3282-012-A | TUNER UNIT (TUX-006(E)) (C850RDS:G) | |
| TU10 | A-3282-029-A | TUNER UNIT (TUX-006/2(E)) (EXCEPT C850RDS:G) | |

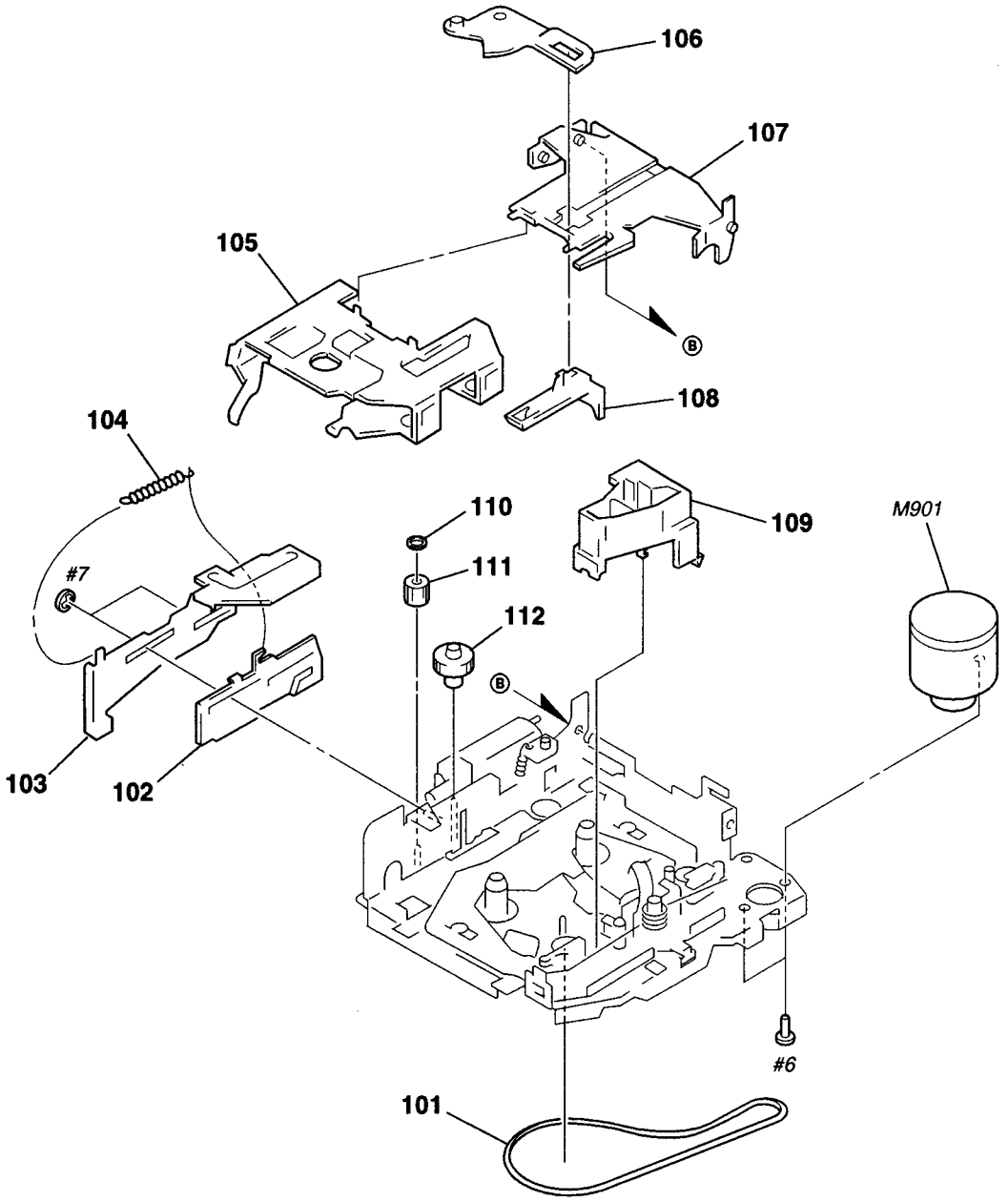
## 7-2. FRONT PANEL SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | 3-010-985-01 | BUTTON (+) | |
| 52 | 3-010-986-01 | BUTTON (MODE) | |
| 53 | 3-010-987-01 | BUTTON (-) | |
| 54 | X-3373-383-1 | BUTTON (SOURCE) ASSY | |
| 55 | 3-010-989-01 | KNOB (VOL) | |
| 56 | 3-010-983-01 | BUTTON (OPEN) | |
| 57 | 3-010-997-01 | SPRING (OPEN) | |
| 58 | 3-010-982-01 | BUTTON (SOUND) | |
| 59 | 3-010-981-01 | BUTTON (OFF) | |
| 60 | 3-010-980-01 | BUTTON (10 KEY) | |
| 61 | 3-011-459-01 | BUTTON (PTY) | |

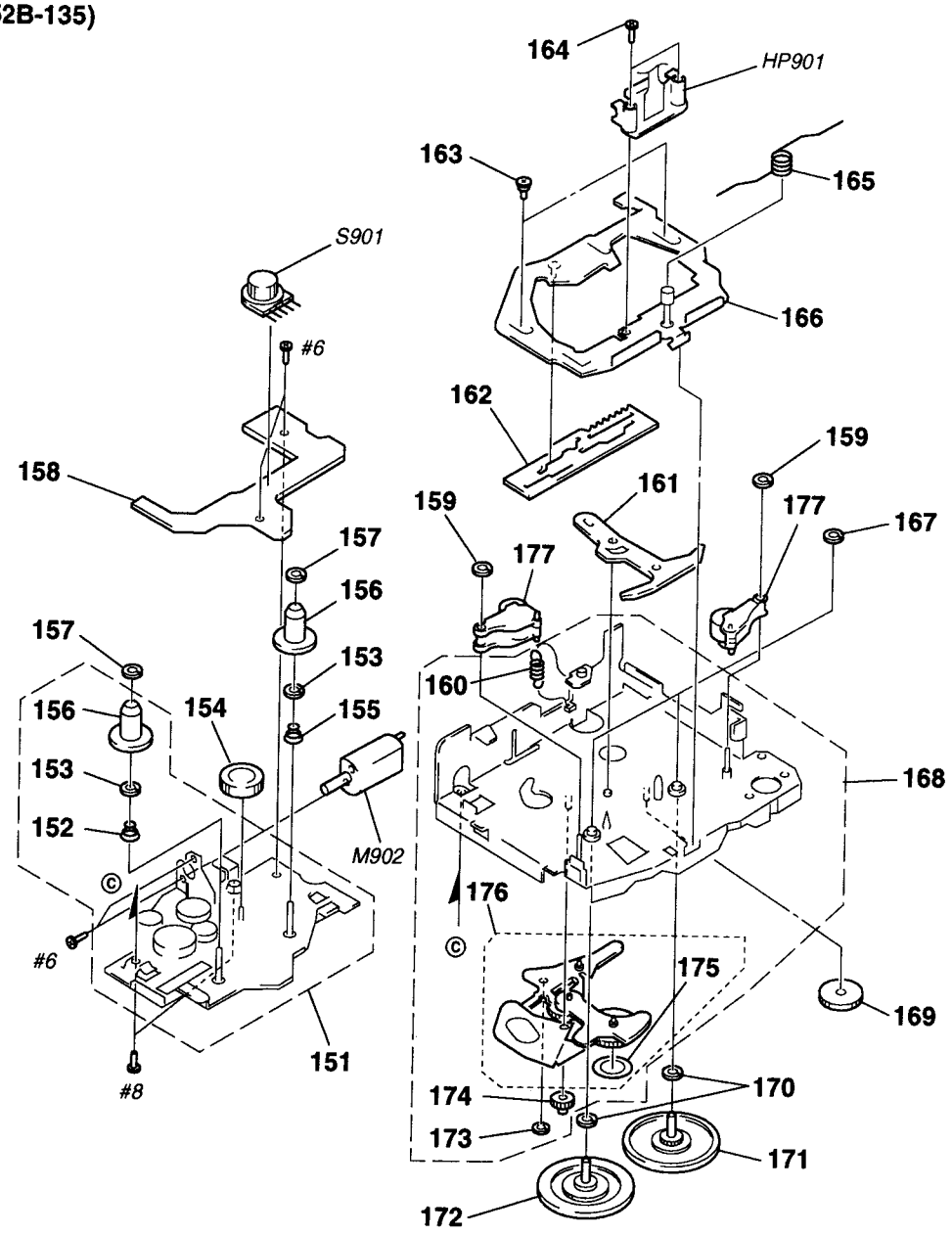
| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 62 | 3-010-995-01 | ILLUMINATOR (LCD) | |
| * 63 | 3-010-991-01 | PLATE (LCD), LIGHT GUIDE | |
| * 64 | 3-010-994-01 | HOLDER (LCD) | |
| 65 | 3-010-998-01 | SPRING (BEARING) | |
| 66 | 3-010-999-01 | BEARING (L) | |
| 67 | 3-011-000-01 | BEARING (R) | |
| 68 | 3-010-977-01 | PANEL, FRONT BACK | |
| 69 | X-3373-706-1 | PANEL SUB ASSY, FRONT (C850RDS) | |
| 69 | X-3373-707-1 | PANEL SUB ASSY, FRONT (C750RDS) | |
| 70 | 3-011-002-01 | BUTTON (TIR) | |
| LCD701 | 1-801-679-11 | DISPLAY PANEL, LIQUID CRYSTAL | |

## 7-3. MECHANISM DECK SECTION-1
## (MG-52B-135)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 101 | 3-928-675-01 | BELT (52) | |
| * 102 | 3-928-673-01 | LEVER (LDG-A) | |
| 103 | 3-928-674-01 | LEVER (LDG-B) | |
| 104 | 3-933-341-01 | SPRING (LEVER LDG), TENSION | |
| 105 | 3-928-671-01 | HOUSING | |
| * 106 | 3-933-347-01 | ARM (SUCTION) | |
| 107 | 3-933-340-01 | HANGER | |
| 108 | 3-933-346-01 | CATCHER | |
| 109 | 3-933-344-01 | GUIDE (C) | |
| 110 | 3-341-753-11 | WASHER, POLYETHYLENE | |
| 111 | 3-933-335-01 | GEAR (LDG-FT) | |
| 112 | 3-928-667-01 | GEAR (LDG-A) | |
| M901 | A-3291-665-A | MOTOR ASSY, MAIN (CAPSTANRE EL) | |

## 7-4. MECHANISM DECK SECTION-2 (MG-52B-135)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 151 | X-3371-710-1 | CHASSIS (S) ASSY | |
| 152 | 3-933-337-01 | SPRING (B-T-R), CONE COIL | |
| 153 | 3-701-437-01 | POLY-SLIDER (A) | |
| 154 | 3-933-333-01 | GEAR (LDG-E) | |
| 155 | 3-933-339-01 | SPRING (B-T-F), CONE COIL | |
| 156 | 3-933-345-01 | GEAR, REEL | |
| 157 | 3-954-807-01 | WASHER | |
| 158 | 1-660-169-11 | REEL BOARD | |
| 159 | 3-341-752-11 | WASHER, POLYETHYLENE | |
| 160 | 3-933-336-01 | SPRING (ARM HANGER), TENSION | |
| 161 | 3-928-669-01 | LEVER (PINCH SELECTION) | |
| 162 | 3-928-668-01 | LEVER (MODE) | |
| 163 | 3-933-338-01 | SCREW (HP), STEP | |
| 164 | 3-927-100-01 | SCREW (+PS 2X10), SPECIAL | |
| 165 | 3-928-670-01 | SPRING (PINCH PRESS) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| * 166 | X-3371-712-1 | PLATE SUB ASSY, HEAD | |
| 167 | 3-364-151-01 | WASHER | |
| * 168 | X-3371-705-1 | CHASSIS (M) ASSY (B) | |
| 169 | X-3371-707-1 | CLUTCH (PLAY) ASSY | |
| 170 | 3-701-437-21 | WASHER | |
| 171 | 3-930-932-01 | FLYWHEEL (F) (SEF) | |
| 172 | A-3291-667-A | CLUTCH (FR) ASSY | |
| 173 | 3-321-813-01 | WASHER, COTTER POLYETHYLENE | |
| 174 | 3-933-343-01 | GEAR (REVERSE) | |
| 175 | 3-933-383-01 | SEAL (32), REFLECTION | |
| 176 | X-3371-703-1 | LEVER (GEAR) ASSY | |
| 177 | X-3371-713-2 | LEVER (PINCH) ASSY | |
| HP901 | 1-500-157-21 | HEAD, MAGNETIC (PLAYBACK) | |
| M902 | A-3291-664-A | MOTOR ASSY, SUB (LOADING/TAPE OPERATION) | |
| S901 | 1-692-885-11 | SWITCH, ROTARY SLIDE (TAPE OPERATION) | |

# SECTION 8
# ELECTRICAL PARTS LIST

KEY

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Abbreviation
  G : German model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA.. : μA.. uPA.. : μPA..
  uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS
  uF : μF
- COILS
  uH : μH

When indicating parts by reference number, please include the board.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | KEY BOARD | | | |
| | | ********** | | | |
| * | 3-010-991-01 | PLATE (LCD), LIGHT GUIDE | | | |
| * | 3-010-994-01 | HOLDER (LCD) | | | |
| * | 3-010-995-01 | ILLUMINATOR (LCD) | | | |
| | | < CAPACITOR > | | | |
| C770 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% 25V | |
| C771 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% 25V | |
| C772 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% 25V | |
| C773 | 1-163-004-11 | CERAMIC CHIP | 0.1uF | 10% 25V | |
| | | < CONNECTOR > | | | |
| CN701 | 1-778-183-11 | PLUG, CONNECTOR 18P | | | |
| | | < DIODE > | | | |
| D710 | 8-719-421-36 | DIODE MA8036-L | | | |
| D770 | 8-719-420-90 | DIODE MA8051-M | | | |
| D771 | 8-719-420-90 | DIODE MA8051-M | | | |
| D773 | 8-719-404-49 | DIODE MA111 | | | |
| D774 | 8-719-420-90 | DIODE MA8051-M | | | |
| | | < IC > | | | |
| IC701 | 8-759-331-68 | IC uPD16432AGC-011-9EU | | | |
| IC702 | 8-749-012-17 | IC RS-140-T | | | |
| | | < LIQUID CRYSTAL DISPLAY > | | | |
| LCD701 | 1-801-679-11 | DISPLAY PANEL, LIQUID CRYSTAL | | | |
| | | < DIODE > | | | |
| LED751 | 8-719-052-72 | LED CL-220HR-C (⏲) | | | |
| LED761 | 8-719-987-45 | LED CL-155Y/PG-CD | | | |
| LED762 | 8-719-987-45 | LED CL-155Y/PG-CD | | | |
| LED763 | 8-719-987-45 | LED CL-155Y/PG-CD | | | |
| LED764 | 8-719-987-45 | LED CL-155Y/PG-CD | | | |
| LED765 | 8-719-987-45 | LED CL-155Y/PG-CD | | | |
| LED766 | 8-719-987-45 | LED CL-155Y/PG-CD | | | |
| LED773 | 8-719-033-14 | LED CL-170Y/CD-T | | | |
| LED774 | 8-719-033-14 | LED CL-170Y/CD-T | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < SWITCH > | |
| LSW700 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (OFF) | |
| LSW701 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (SOURCE) | |
| LSW702 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (⏮ ◀◀ - (SEEK/AMS)) | |
| LSW703 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (MODE ◀II▶) | |
| LSW704 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (▶▶⏭ ▶▶ + (SEEK/AMS)) | |
| LSW705 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (SOUND) | |
| LSW706 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (SHIFT) | |
| LSW707 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (1) | |
| LSW708 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (2) | |
| LSW709 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (3) | |
| LSW710 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (4) | |
| LSW711 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (DSPL) | |
| LSW712 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (LIST) | |
| LSW713 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (AF/TA) | |
| LSW714 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (TIR) | |
| LSW715 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (10) | |
| LSW716 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (9) | |
| LSW717 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (8) | |
| LSW718 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (7) | |
| LSW719 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (6) | |
| LSW720 | 1-762-620-11 | SWITCH, KEY BOARD (WITH LED) (5) | |
| | | < PILOT LAMP > | |
| PL701 | 1-517-630-31 | LAMP, PILOT | |
| PL702 | 1-517-630-31 | LAMP, PILOT | |
| | | < TRANSISTOR > | |
| Q710 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q711 | 8-729-106-60 | TRANSISTOR 2SB1115A | |
| Q712 | 8-729-904-66 | TRANSISTOR DTD113EK | |
| Q713 | 8-729-904-66 | TRANSISTOR DTD113EK | |
| Q714 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| | | < RESISTOR > | |
| R701 | 1-216-045-00 | METAL CHIP 680 5% 1/10W | |
| R702 | 1-216-045-00 | METAL CHIP 680 5% 1/10W | |

**KEY** **MAIN**

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R703 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W | |
| R704 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R705 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W | |
| R706 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W | |
| R707 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R708 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W | |
| R709 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R710 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | |
| R711 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W | |
| R712 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W | |
| R713 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W | |
| R714 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R715 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W | |
| R716 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W | |
| R717 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R718 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W | |
| R719 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R720 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | |
| R721 | 1-216-176-11 | METAL CHIP | 120 | 5% | 1/8W | |
| R722 | 1-216-176-11 | METAL CHIP | 120 | 5% | 1/8W | |
| R723 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W | |
| R724 | 1-216-176-11 | METAL CHIP | 120 | 5% | 1/8W | |
| R725 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W | |
| R726 | 1-216-176-11 | METAL CHIP | 120 | 5% | 1/8W | |
| R727 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W | |
| R728 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W | |
| R729 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W | |
| R730 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W | |
| R750 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W | |
| R751 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R752 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R754 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W | |
| R770 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W | |
| R771 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R772 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W | |
| R773 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R774 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W | |
| R775 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W | |
| R780 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R781 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R782 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R783 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R784 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R785 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R786 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R787 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R788 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R789 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R790 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R791 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R792 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |

< ROTARY ENCODE >

| | | | |
|---|---|---|---|
| RE701 | 1-475-014-11 | ENCODER, ROTARY | |

**********

| | | | |
|---|---|---|---|
| * | A-3309-956-A | MAIN BOARD, COMPLETE (C850RDS:AEP,UK) | |
| * | A-3309-962-A | MAIN BOARD, COMPLETE (C850RDS:G) | |
| * | A-3309-964-A | MAIN BOARD, COMPLETE (C750RDS:AEP,UK) | |
| * | A-3309-966-A | MAIN BOARD, COMPLETE (C750RDS:G) | |
| | | ********** | |
| * | 3-011-077-01 | HEAT SINK (C850RDS) | |
| * | 3-011-077-11 | HEAT SINK (C750RDS) | |
| * | 3-011-078-01 | BRACKET (POWER IC) | |
| * | 3-011-090-01 | BRACKET (IC) | |
| | 7-685-794-09 | SCREW +PTT 2.6X10 (S) | |

< BUZZER >

| | | | |
|---|---|---|---|
| BZ501 | 1-504-920-11 | BUZZER | |

< CAPACITOR >

| | | | | | |
|---|---|---|---|---|---|
| C9 | 1-163-251-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C10 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C11 | 1-124-584-00 | ELECT | 100uF | 20% | 10V |
| C12 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C13 | 1-124-584-00 | ELECT | 100uF | 20% | 10V |
| C14 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C15 | 1-124-584-00 | ELECT | 100uF | 20% | 10V |
| C16 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C17 | 1-163-253-11 | CERAMIC CHIP | 120PF | 5% | 50V |
| C18 | 1-136-485-11 | FILM | 0.01uF | 5% | 50V |
| C19 | 1-124-465-00 | ELECT | 0.47uF | 20% | 50V |
| C20 | 1-110-351-11 | MYLAR | 0.001uF | 5% | 50V |
| C21 | 1-137-358-11 | FILM | 0.0001uF | 5% | 50V |
| C22 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C23 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C24 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C25 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C26 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | | 25V |
| C27 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C28 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C29 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C30 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C31 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C32 | 1-163-110-00 | CERAMIC CHIP | 51PF | 5% | 50V |
| C33 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C34 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C35 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C70 | 1-124-233-00 | ELECT | 10uF | 20% | 16V |
| C71 | 1-126-160-11 | ELECT | 1uF | 20% | 50V |
| C80 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C81 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C83 | 1-163-275-11 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C84 | 1-163-275-11 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C85 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C90 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C91 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C93 | 1-163-275-11 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C94 | 1-163-275-11 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C95 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C96 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C97 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C100 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | | 25V |
| C101 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C102 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C103 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C106 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C107 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C108 | 1-163-017-00 | CERAMIC CHIP | 0.0047uF | 5% | 50V |
| C109 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C110 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C111 | 1-163-125-00 | CERAMIC CHIP | 220PF | 5% | 50V |
| C112 | 1-163-989-11 | CERAMIC CHIP | 0.033uF | 10% | 25V |
| C150 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C151 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C154 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C155 | 1-163-127-00 | CERAMIC CHIP | 270PF | 5% | 50V |
| C156 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C157 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C158 | 1-163-135-00 | CERAMIC CHIP | 560PF | 5% | 50V |
| C201 | 1-126-935-11 | ELECT | 470uF | 20% | 16V |
| C202 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C203 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C204 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | | 25V |
| C207 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | | 25V |
| C210 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C211 | 1-124-589-11 | ELECT | 47uF | 20% | 16V |
| C230 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C231 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C232 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C233 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C234 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C235 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C236 | 1-124-465-00 | ELECT | 0.47uF | 20% | 50V |
| C237 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C238 | 1-164-344-11 | CERAMIC CHIP | 0.068uF | 10% | 25V |
| C239 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C240 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C241 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C242 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C243 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C244 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C245 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C246 | 1-124-465-00 | ELECT | 0.47uF | 20% | 50V |
| C247 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C249 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C250 | 1-107-823-11 | CERAMIC CHIP | 0.47uF | 10% | 16V |
| C251 | 1-164-344-11 | CERAMIC CHIP | 0.068uF | 10% | 25V |
| C252 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C253 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C254 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C255 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C261 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C262 | 1-126-157-11 | ELECT | 10uF | 20% | 16V (C850RDS) |
| C301 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C303 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C304 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C305 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C306 | 1-163-017-00 | CERAMIC CHIP | 0.0047uF | 5% | 50V |
| C307 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C308 | 1-164-161-11 | CERAMIC CHIP | 0.0022uF | 10% | 100V |
| C309 | 1-124-465-00 | ELECT | 0.47uF | 20% | 50V |
| C310 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C315 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C316 | 1-124-589-11 | ELECT | 47uF | 20% | 16V |
| C317 | 1-124-584-00 | ELECT | 100uF | 20% | 10V |
| C318 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C319 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C330 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C331 | 1-115-175-11 | ELECT | 100uF | 20% | 16V |
| C332 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C333 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C340 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C341 | 1-115-175-11 | ELECT | 100uF | 20% | 16V |
| C342 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C343 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C351 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V (C850RDS) |
| C360 | 1-126-157-11 | ELECT | 10uF | 20% | 16V (C850RDS) |
| C361 | 1-126-157-11 | ELECT | 10uF | 20% | 16V (C850RDS) |
| C362 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V (C850RDS) |
| C363 | 1-163-989-11 | CERAMIC CHIP | 0.033uF | 10% | 25V (C850RDS) |

## MAIN

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C370 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V (C850RDS) |
| C371 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V (C850RDS) |
| C372 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V (C850RDS) |
| C373 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V (C850RDS) |
| C374 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V (C850RDS) |
| C375 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V (C850RDS) |
| C376 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V (C850RDS) |
| C377 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V (C850RDS) |
| C378 | 1-124-234-00 | ELECT | 22uF | 20% | 16V (C850RDS) |
| C379 | 1-124-234-00 | ELECT | 22uF | 20% | 16V (C850RDS) |
| C380 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C381 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C383 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C401 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C402 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C403 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C404 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C405 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C406 | 1-163-017-00 | CERAMIC CHIP | 0.0047uF | 5% | 50V |
| C407 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C408 | 1-164-161-11 | CERAMIC CHIP | 0.0022uF | 10% | 100V |
| C409 | 1-124-465-00 | ELECT | 0.47uF | 20% | 50V |
| C410 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C416 | 1-124-589-11 | ELECT | 47uF | 20% | 16V |
| C430 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C431 | 1-115-175-11 | ELECT | 100uF | 20% | 16V |
| C432 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C433 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C440 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C441 | 1-115-175-11 | ELECT | 100uF | 20% | 16V |
| C442 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C443 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C460 | 1-126-157-11 | ELECT | 10uF | 20% | 16V (C850RDS) |
| C461 | 1-126-157-11 | ELECT | 10uF | 20% | 16V (C850RDS) |
| C462 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V (C850RDS) |
| C463 | 1-163-989-11 | CERAMIC CHIP | 0.033uF | 10% | 25V (C850RDS) |
| C470 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V (C850RDS) |
| C471 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C472 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C473 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V (C850RDS) |
| C474 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V (C850RDS) |
| C475 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V (C850RDS) |
| C476 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V (C850RDS) |
| C477 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V (C850RDS) |
| C478 | 1-124-234-00 | ELECT | 22uF | 20% | 16V (C850RDS) |
| C479 | 1-124-234-00 | ELECT | 22uF | 20% | 16V (C850RDS) |
| C480 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V (C850RDS) |
| C481 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V (C850RDS) |
| C483 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C501 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C502 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C503 | 1-163-099-00 | CERAMIC CHIP | 18PF | 5% | 50V |
| C504 | 1-163-099-00 | CERAMIC CHIP | 18PF | 5% | 50V |
| C551 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C552 | 1-124-584-00 | ELECT | 100uF | 20% | 10V |
| C553 | 1-125-701-11 | DOUBLE LAYERS | 0.047F | | 5.5V |
| C554 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C572 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C601 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C603 | 1-124-589-11 | ELECT | 47uF | 20% | 16V |
| C604 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C605 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C630 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C640 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V |
| C650 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C651 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C666 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C667 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C682 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C683 | 1-164-004-11 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C900 | 1-111-233-11 | ELECT | 5600uF | 20% | 16V |
| C901 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V |
| C902 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V |
| C903 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V |
| C904 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V |
| C905 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C906 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V |
| C907 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V |
| C908 | 1-136-165-00 | FILM | 0.1uF | 5% | 50V |
| C910 | 1-164-506-11 | CERAMIC CHIP | 4.7uF | | 16V |
| C912 | 1-107-823-11 | CERAMIC CHIP | 0.47uF | 10% | 16V |
| C913 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C914 | 1-104-665-11 | ELECT | 100uF | 20% | 25V |
| C915 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C916 | 1-124-584-00 | ELECT | 100uF | 20% | 10V |
| C917 | 1-126-160-11 | ELECT | 1uF | 20% | 50V |
| C918 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C920 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C921 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C922 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C925 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C951 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C952 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C953 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C954 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C955 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C956 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C957 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C958 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C959 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V (C850RDS) |
| C960 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V (C850RDS) |
| | | < CONNECTOR > | | | |
| CN210 | 1-766-260-11 | CONNECTOR, FFC/FPC (ZIF) 7P | | | |
| * CN211 | 1-506-995-11 | PIN, CONNECTOR (PC BOARD) 13P | | | |
| CN571 | 1-580-907-31 | PLUG, CONNECTOR 8P (BUS CONTROL IN) | | | |
| CN650 | 1-770-411-11 | CONNECTOR, BOARD TO BOARD 20P | | | |
| CN900 | 1-774-701-11 | PIN, CONNECTOR 16P | | | |
| CN950 | 1-774-700-11 | JACK, PIN 6P (BUS AUDIO IN, REAR/FRONT LINE OUT) (C750RDS) | | | |
| CN950 | 1-774-700-11 | JACK, PIN 6P (BUS AUDIO IN, REAR LINE OUT/LINE IN, FRONT LINE OUT/LINE IN) (C850RDS) | | | |
| * CN951 | 1-750-241-21 | PIN, CONNECTOR (PC BOARD) 3P (C850RDS) | | | |
| | | < DISCHARGE GAP > | | | |
| CP10 | 1-519-504-11 | GAP, DISCHARGE | | | |
| | | < DIODE > | | | |
| D10 | 8-719-040-04 | DIODE MA721WK-(TX) | | | |
| D11 | 8-719-422-49 | DIODE MA8056-L | | | |
| D12 | 8-719-422-97 | DIODE MA8091-M | | | |
| D13 | 8-719-422-16 | DIODE MA8039-L-TX | | | |
| D75 | 8-719-422-16 | DIODE MA8039-L-TX | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| D110 | 8-719-404-49 | DIODE MA111 | |
| D201 | 8-719-404-49 | DIODE MA111 | |
| D202 | 8-719-422-97 | DIODE MA8091-M | |
| D250 | 8-719-404-49 | DIODE MA111 | |
| D254 | 8-719-422-16 | DIODE MA8039-L-TX | |
| D501 | 8-719-400-20 | DIODE MA152WA | |
| D551 | 8-719-040-04 | DIODE MA721WK-(TX) | |
| D552 | 8-719-404-49 | DIODE MA111 | |
| D553 | 8-719-422-64 | DIODE MA8062-M | |
| D560 | 8-719-422-64 | DIODE MA8062-M | |
| D571 | 8-719-017-62 | DIODE MA8068-L-TX | |
| D572 | 8-719-422-64 | DIODE MA8062-M | |
| D573 | 8-719-422-64 | DIODE MA8062-M | |
| D574 | 8-719-422-64 | DIODE MA8062-M | |
| D575 | 8-719-022-90 | DIODE MA8160M | |
| D576 | 8-719-404-49 | DIODE MA111 | |
| D577 | 8-719-404-49 | DIODE MA111 | |
| D620 | 8-719-048-98 | DIODE RB160L-40TE25 | |
| D630 | 8-719-801-78 | DIODE 1SS184 | |
| D631 | 8-719-422-76 | DIODE MA8075-M | |
| D640 | 8-719-801-78 | DIODE 1SS184 | |
| D641 | 8-719-422-76 | DIODE MA8075-M | |
| D650 | 8-719-423-23 | DIODE MA8110-M | |
| D651 | 8-719-400-20 | DIODE MA152WA | |
| D652 | 8-719-423-23 | DIODE MA8110-M | |
| D664 | 8-719-422-64 | DIODE MA8062-M | |
| D665 | 8-719-422-64 | DIODE MA8062-M | |
| D668 | 8-719-422-64 | DIODE MA8062-M | |
| D669 | 8-719-422-64 | DIODE MA8062-M | |
| D670 | 8-719-422-64 | DIODE MA8062-M | |
| D671 | 8-719-422-64 | DIODE MA8062-M | |
| D672 | 8-719-422-64 | DIODE MA8062-M | |
| D680 | 8-719-404-49 | DIODE MA111 | |
| D682 | 8-719-404-49 | DIODE MA111 | |
| D683 | 8-719-422-64 | DIODE MA8062-M | |
| D900 | 8-719-049-38 | DIODE 1N5404TU | |
| D901 | 8-719-313-74 | DIODE SFPB-52V | |
| D905 | 8-719-404-49 | DIODE MA111 | |
| D910 | 8-719-404-49 | DIODE MA111 | |
| D911 | 8-719-422-16 | DIODE MA8039-L-TX | |
| D920 | 8-719-422-64 | DIODE MA8062-M | |
| | | < FUSE > | |
| F901 | 1-532-877-11 | FUSE (BLADE TYPE) (AUTO FUSE) 10A | |

# MAIN

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < FERRITE BEAD > | |
| FB104 | 1-414-233-21 | INDUCTOR, FERRITE BEAD | |
| | | < IC > | |
| IC10 | 8-759-448-86 | IC TB2114FN(EL) | |
| IC75 | 8-759-242-66 | IC TC4W66F | |
| IC81 | 8-759-711-82 | IC NJM4580E | |
| IC101 | 8-759-456-18 | IC MN1884820Y5F | |
| IC102 | 8-759-374-66 | IC MSM6688GS-2K | |
| IC103 | 8-759-180-46 | IC MSM6685JSDR1 (C850RDS) | |
| IC103 | 8-759-448-87 | IC MSM6684JSDR1 (C750RDS) | |
| IC150 | 8-759-065-98 | IC SAA6579T | |
| IC210 | 8-752-079-79 | IC CXA2510AQ-T4 (C750RDS) | |
| IC210 | 8-752-079-80 | IC CXA2511AQ-T4 (C850RDS) | |
| IC201 | 8-759-823-87 | IC LB1638M | |
| IC301 | 8-752-078-67 | IC CXA1946BQ-T6 | |
| IC302 | 8-759-711-82 | IC NJM4580E | |
| IC310 | 8-759-444-50 | IC TDA8574(T) | |
| IC350 | 8-752-067-30 | IC CXA1846N (C850RDS) | |
| IC351 | 8-759-391-88 | IC BU4066BCFV-E2 (C850RDS) | |
| IC352 | 8-759-391-88 | IC BU4066BCFV-E2 (C850RDS) | |
| IC370 | 8-759-262-37 | IC TA2050F(EL) (C850RDS) | |
| IC383 | 8-759-711-82 | IC NJM4580E (C850RDS) | |
| IC410 | 8-759-444-50 | IC TDA8574(T) | |
| IC470 | 8-759-262-37 | IC TA2050F(EL) (C850RDS) | |
| IC501 | 8-759-460-52 | IC uPD78058GC-462-3B9 | |
| IC551 | 8-759-363-81 | IC XC61AN4002PR | |
| IC571 | 8-759-449-89 | IC BA8270F-E2 | |
| IC601 | 8-759-347-50 | IC BA3918-V3 | |
| IC900 | 8-759-448-61 | IC HA13156 | |
| | | < JACK > | |
| J10 | 1-764-808-14 | JACK (ANTENNA) | |
| J680 | 1-566-822-41 | JACK (REMOTE IN) | |
| | | < JUMPER RESISTOR > | |
| JR10 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | |
| JR11 | 1-216-295-00 | CONDUCTOR, CHIP (2012) | |
| | | < COIL > | |
| L10 | 1-410-196-11 | INDUCTOR CHIP 2.2uH | |
| L11 | 1-410-196-11 | INDUCTOR CHIP 2.2uH | |
| L25 | 1-410-204-31 | INDUCTOR CHIP 10uH | |
| L26 | 1-414-233-21 | INDUCTOR, FERRITE BEAD | |
| L101 | 1-410-204-31 | INDUCTOR CHIP 10uH | |
| L102 | 1-410-204-31 | INDUCTOR CHIP 10uH | |
| L103 | 1-410-204-31 | INDUCTOR CHIP 10uH | |
| L501 | 1-410-204-31 | INDUCTOR CHIP 10uH | |
| L900 | 1-411-669-12 | COIL, CHOKE | |
| | | < TRANSISTOR > | |
| Q10 | 8-729-106-68 | TRANSISTOR 2SD1615A-GP | |
| Q11 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q12 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q70 | 8-729-920-21 | TRANSISTOR DTC314TKH04 | |
| Q75 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q78 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q80 | 8-729-920-21 | TRANSISTOR DTC314TKH04 | |
| Q85 | 8-729-020-67 | TRANSISTOR XN1A312-TX | |
| Q90 | 8-729-920-21 | TRANSISTOR DTC314TKH04 | |
| Q110 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q111 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q112 | 8-729-403-35 | TRANSISTOR UN5113 | |
| Q113 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q201 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q202 | 8-729-020-67 | TRANSISTOR XN1A312-TX | |
| Q203 | 8-729-030-18 | TRANSISTOR 2SD2525 | |
| Q204 | 8-729-106-60 | TRANSISTOR 2SB1115A | |
| Q230 | 8-729-920-21 | TRANSISTOR DTC314TKH04 | |
| Q240 | 8-729-920-21 | TRANSISTOR DTC314TKH04 | |
| Q254 | 8-729-020-67 | TRANSISTOR XN1A312-TX | |
| Q330 | 8-729-400-56 | TRANSISTOR 2SD1328-T | |
| Q340 | 8-729-400-56 | TRANSISTOR 2SD1328-T | |
| Q362 | 8-729-421-22 | TRANSISTOR UN2211 (C850RDS) | |
| Q365 | 8-729-421-22 | TRANSISTOR UN2211 (C850RDS) | |
| Q370 | 8-729-920-21 | TRANSISTOR DTC314TKH04 (C850RDS) | |
| Q430 | 8-729-400-56 | TRANSISTOR 2SD1328-T | |
| Q440 | 8-729-400-56 | TRANSISTOR 2SD1328-T | |
| Q470 | 8-729-920-21 | TRANSISTOR DTC314TKH04 (C850RDS) | |
| Q571 | 8-729-015-74 | TRANSISTOR UN5111 | |
| Q572 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q573 | 8-729-403-35 | TRANSISTOR UN5113 | |
| Q574 | 8-729-230-63 | TRANSISTOR 2SC4116-YG | |
| Q620 | 8-729-822-84 | TRANSISTOR 2SB1202FAST | |
| Q621 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q630 | 8-729-230-63 | TRANSISTOR 2SC4116-YG | |
| Q640 | 8-729-230-63 | TRANSISTOR 2SC4116-YG | |
| Q650 | 8-729-020-67 | TRANSISTOR XN1A312-TX | |
| Q651 | 8-729-030-18 | TRANSISTOR 2SD2525 | |
| Q652 | 8-729-030-18 | TRANSISTOR 2SD2525 | |
| Q654 | 8-729-020-67 | TRANSISTOR XN1A312-TX | |
| Q655 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q656 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q657 | 8-729-015-74 | TRANSISTOR UN5111 | |
| Q658 | 8-729-015-74 | TRANSISTOR UN5111 | |
| Q910 | 8-729-421-22 | TRANSISTOR UN2211 | |

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| Q912 | 8-729-021-94 | TRANSISTOR 2SK1657-T1B | | | | |
| Q913 | 8-729-424-08 | TRANSISTOR UN2111 | | | | |
| Q914 | 8-729-021-94 | TRANSISTOR 2SK1657-T1B | | | | |
| | | < RESISTOR > | | | | |
| R10 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R11 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W | |
| R12 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R13 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R14 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R15 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R16 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W | |
| R17 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R18 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R19 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R20 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W | |
| R21 | 1-216-295-00 | CONDUCTOR, CHIP | | (2012) | | |
| R68 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R69 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W | |
| R70 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W | |
| R71 | 1-216-085-00 | METAL CHIP | 33K | 5% | 1/10W | |
| R75 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R77 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R78 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R80 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R82 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R83 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | (EXCEPT G) |
| R83 | 1-216-075-00 | METAL CHIP | 12K | 5% | 1/10W | (G) |
| R84 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | |
| R85 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | |
| R86 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R90 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R92 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R93 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | (EXCEPT G) |
| R93 | 1-216-075-00 | METAL CHIP | 12K | 5% | 1/10W | (G) |
| R94 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | |
| R95 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | |
| R96 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R100 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R101 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R102 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R103 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R104 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R109 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R110 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R111 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R112 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | (C850RDS:G) |

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R113 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | (EXCEPT G) |
| R114 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R115 | 1-216-117-00 | METAL CHIP | 680K | 5% | 1/10W | |
| R116 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R117 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R118 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R119 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R120 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R121 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R122 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R123 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W | |
| R124 | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1/10W | |
| R125 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R126 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R127 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R128 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R130 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | (C750RDS) |
| R131 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | (C850RDS) |
| R132 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R133 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R150 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R151 | 1-216-129-00 | METAL CHIP | 2.2M | 5% | 1/10W | |
| R201 | 1-216-150-00 | METAL GLAZE | 10 | 5% | 1/8W | |
| R202 | 1-216-150-00 | METAL GLAZE | 10 | 5% | 1/8W | |
| R203 | 1-216-150-00 | METAL GLAZE | 10 | 5% | 1/8W | |
| R204 | 1-216-150-00 | METAL GLAZE | 10 | 5% | 1/8W | |
| R205 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R206 | 1-216-214-00 | METAL GLAZE | 4.7K | 5% | 1/8W | |
| R207 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R210 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R211 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R212 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R213 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R230 | 1-216-093-00 | METAL CHIP | 68K | 5% | 1/10W | |
| R231 | 1-216-093-00 | METAL CHIP | 68K | 5% | 1/10W | |
| R232 | 1-216-027-00 | METAL CHIP | 120 | 5% | 1/10W | |
| R233 | 1-216-109-00 | METAL CHIP | 330K | 5% | 1/10W | |
| R234 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W | |
| R235 | 1-216-075-00 | METAL CHIP | 12K | 5% | 1/10W | |
| R238 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R240 | 1-216-093-00 | METAL CHIP | 68K | 5% | 1/10W | |
| R241 | 1-216-093-00 | METAL CHIP | 68K | 5% | 1/10W | |
| R242 | 1-216-027-00 | METAL CHIP | 120 | 5% | 1/10W | |
| R243 | 1-216-109-00 | METAL CHIP | 330K | 5% | 1/10W | |
| R244 | 1-216-079-00 | METAL CHIP | 18K | 5% | 1/10W | |
| R245 | 1-216-075-00 | METAL CHIP | 12K | 5% | 1/10W | |

## MAIN

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R248 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R250 | 1-216-682-11 | METAL CHIP | 20K | 0.5% | 1/10W | |
| R251 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R252 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R253 | 1-216-113-00 | METAL CHIP | 470K | 5% | 1/10W | |
| R261 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R262 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | (C850RDS) |
| R301 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R302 | 1-216-075-00 | METAL CHIP | 12K | 5% | 1/10W | |
| R303 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R304 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | |
| R305 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R306 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | |
| R310 | 1-216-214-00 | METAL GLAZE | 4.7K | 5% | 1/8W | |
| R311 | 1-216-214-00 | METAL GLAZE | 4.7K | 5% | 1/8W | |
| R320 | 1-216-295-00 | CONDUCTOR, CHIP | | | (2012) | (C750RDS) |
| R321 | 1-216-295-00 | CONDUCTOR, CHIP | | | (2012) | (C750RDS) |
| R330 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R331 | 1-216-082-00 | METAL GLAZE | 24K | 5% | 1/10W | |
| R332 | 1-216-086-00 | METAL GLAZE | 36K | 5% | 1/10W | |
| R333 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W | |
| R334 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R335 | 1-216-295-00 | CONDUCTOR, CHIP | | | (2012) | (C750RDS) |
| R336 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R340 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R341 | 1-216-082-00 | METAL GLAZE | 24K | 5% | 1/10W | |
| R342 | 1-216-086-00 | METAL GLAZE | 36K | 5% | 1/10W | |
| R343 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W | |
| R344 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R345 | 1-216-295-00 | CONDUCTOR, CHIP | | | (2012) | (C750RDS) |
| R346 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R359 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | (C850RDS) |
| R361 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | (C850RDS) |
| R362 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | (C850RDS) |
| R363 | 1-216-101-00 | METAL CHIP | 150K | 5% | 1/10W | (C850RDS) |
| R364 | 1-216-101-00 | METAL CHIP | 150K | 5% | 1/10W | (C850RDS) |
| R365 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | (C850RDS) |
| R366 | 1-216-093-00 | METAL CHIP | 68K | 5% | 1/10W | (C850RDS) |
| R367 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W | (C850RDS) |
| R368 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W | (C850RDS) |

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R369 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | (C850RDS) |
| R370 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W | (C850RDS) |
| R371 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R372 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R373 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | (C850RDS) |
| R374 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | (C850RDS) |
| R375 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W | |
| R376 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W | |
| R377 | 1-216-067-00 | METAL CHIP | 5.6K | 5% | 1/10W | (C850RDS) |
| R378 | 1-216-067-00 | METAL CHIP | 5.6K | 5% | 1/10W | (C850RDS) |
| R379 | 1-216-295-00 | CONDUCTOR, CHIP | | | (2012) | (C750RDS) |
| R380 | 1-216-295-00 | CONDUCTOR, CHIP | | | (2012) | (C750RDS) |
| R401 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R402 | 1-216-075-00 | METAL CHIP | 12K | 5% | 1/10W | |
| R403 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R404 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | |
| R405 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R406 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | |
| R430 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R431 | 1-216-082-00 | METAL GLAZE | 24K | 5% | 1/10W | |
| R432 | 1-216-086-00 | METAL GLAZE | 36K | 5% | 1/10W | |
| R433 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W | |
| R434 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R435 | 1-216-295-00 | CONDUCTOR, CHIP | | | (2012) | (C750RDS) |
| R436 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R440 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R441 | 1-216-082-00 | METAL GLAZE | 24K | 5% | 1/10W | |
| R442 | 1-216-086-00 | METAL GLAZE | 36K | 5% | 1/10W | |
| R443 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W | |
| R444 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R445 | 1-216-295-00 | CONDUCTOR, CHIP | | | (2012) | (C750RDS) |
| R446 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R459 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | (C850RDS) |
| R461 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | (C850RDS) |
| R463 | 1-216-101-00 | METAL CHIP | 150K | 5% | 1/10W | (C850RDS) |
| R464 | 1-216-101-00 | METAL CHIP | 150K | 5% | 1/10W | (C850RDS) |
| R466 | 1-216-093-00 | METAL CHIP | 68K | 5% | 1/10W | (C850RDS) |
| R467 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W | (C850RDS) |

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R468 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W | (C850RDS) |
| R469 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W | (C850RDS) |
| R470 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W | (C850RDS) |
| R471 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | (C850RDS) |
| R472 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | (C850RDS) |
| R473 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | (C850RDS) |
| R474 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | (C850RDS) |
| R475 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W | |
| R476 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W | |
| R477 | 1-216-067-00 | METAL CHIP | 5.6K | 5% | 1/10W | (C850RDS) |
| R478 | 1-216-067-00 | METAL CHIP | 5.6K | 5% | 1/10W | (C850RDS) |
| R479 | 1-216-295-00 | CONDUCTOR, CHIP | | | (2012) | (C750RDS) |
| R480 | 1-216-295-00 | CONDUCTOR, CHIP | | | (2012) | (C750RDS) |
| R500 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R503 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | (C850RDS) |
| R504 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | (C750RDS) |
| R505 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R507 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R509 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R510 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R511 | 1-216-037-00 | METAL CHIP | 330 | 5% | 1/10W | |
| R512 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R514 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R515 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R516 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R517 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R524 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R525 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R526 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R551 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R552 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R560 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R571 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R572 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R573 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R574 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W | |
| R575 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R576 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R577 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R578 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W | |

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| R620 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R621 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W | |
| R630 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W | |
| R631 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R632 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R633 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R634 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R640 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W | |
| R642 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R643 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R644 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R645 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R650 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R651 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R655 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W | |
| R656 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W | |
| R657 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R658 | 1-216-675-11 | METAL CHIP | 10K | 0.5% | 1/10W | |
| R659 | 1-216-675-11 | METAL CHIP | 10K | 0.5% | 1/10W | |
| R666 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R667 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R668 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R671 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R672 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R673 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R674 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R675 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R680 | 1-216-675-11 | METAL CHIP | 10K | 0.5% | 1/10W | |
| R681 | 1-216-675-11 | METAL CHIP | 10K | 0.5% | 1/10W | |
| R682 | 1-216-675-11 | METAL CHIP | 10K | 0.5% | 1/10W | |
| R683 | 1-216-675-11 | METAL CHIP | 10K | 0.5% | 1/10W | |
| R901 | 1-216-134-00 | METAL CHIP | 2.2 | 5% | 1/8W | |
| R902 | 1-216-134-00 | METAL CHIP | 2.2 | 5% | 1/8W | |
| R903 | 1-216-134-00 | METAL CHIP | 2.2 | 5% | 1/8W | |
| R904 | 1-216-134-00 | METAL CHIP | 2.2 | 5% | 1/8W | |
| R905 | 1-216-134-00 | METAL CHIP | 2.2 | 5% | 1/8W | |
| R906 | 1-216-134-00 | METAL CHIP | 2.2 | 5% | 1/8W | |
| R907 | 1-216-134-00 | METAL CHIP | 2.2 | 5% | 1/8W | |
| R908 | 1-216-134-00 | METAL CHIP | 2.2 | 5% | 1/8W | |
| R910 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R911 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W | |
| R912 | 1-216-017-00 | METAL GLAZE | 47 | 5% | 1/10W | |
| R913 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R914 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W | |
| R915 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W | |
| R920 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R951 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |
| R952 | 1-216-049-11 | METAL GLAZE | 1K | 5% | 1/10W | |

**MAIN** | **SUB**

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < NETWORK RESISTOR > | |
| RB130 | 1-236-907-11 | NETWORK RESISTOR (CHIP) 100K | |
| RB520 | 1-239-426-11 | NETWORK RESISTOR (CHIP) 2.2K | |
| RB664 | 1-239-412-11 | NETWORK RESISTOR (CHIP) 100 | |
| | | < VARIABLE RESISTOR > | |
| RV110 | 1-238-861-11 | RES, ADJ, CERMET 470K | |
| RV301 | 1-238-600-11 | RES, ADJ, CARBON 10K | |
| RV401 | 1-238-600-11 | RES, ADJ, CARBON 10K | |
| | | < SWITCH > | |
| S310 | 1-762-284-11 | SWITCH, SLIDE (LINE-OUT/IN SELECT) (C850RDS) | |
| S501 | 1-571-478-11 | SWITCH, SLIDE (POWER SELECT) | |
| S551 | 1-692-431-21 | SWITCH, TACTILE (RESET) | |
| S560 | 1-762-108-11 | SWITCH, PUSH (1 KEY) (NOSE DET) | |
| | | < THERMISTOR(POSITIVE) > | |
| TH620 | 1-809-148-11 | THERMISTOR, POSITIVE | |
| | | < TUNER > | |
| TU10 | A-3282-012-A | TUNER UNIT (TUX-006(E)) (C850RDS:G) | |
| TU10 | A-3282-029-A | TUNER UNIT (TUX-006/2(E)) (EXCEPT C850RDS:G) | |
| | | < VIBRATOR > | |
| X10 | 1-760-838-21 | VIBRATOR, CRYSTAL (7.2MHz) | |
| X101 | 1-579-952-21 | VIBRATOR, CERAMIC (8MHz) | |
| X103 | 1-577-101-11 | VIBRATOR, CERAMIC (4.19MHz) | |
| X150 | 1-579-242-11 | VIBRATOR, CRYSTAL (4.332MHz) | |
| X501 | 1-760-489-11 | VIBRATOR, CERAMIC (5MHz) | |
| X502 | 1-760-928-21 | VIBRATOR, CRYSTAL (32.67kHz) | |
| ********** | | | |
| * | 1-665-379-11 | SUB BOARD | |
| | | ********** | |
| | | < CONNECTOR > | |
| CN800 | 1-779-170-11 | SOCKET, CONNECTOR 20P | |
| CN801 | 1-779-169-11 | SOCKET, CONNECTOR 18P | |
| | | < DIODE > | |
| D800 | 8-719-422-64 | DIODE MA8062-M | |
| D801 | 8-719-422-64 | DIODE MA8062-M | |
| D802 | 8-719-422-64 | DIODE MA8062-M | |
| D803 | 8-719-422-64 | DIODE MA8062-M | |
| LED800 | 8-719-058-14 | LED CL-220PG-C-TS (⏏) | |
| LED801 | 8-719-051-01 | LED CL-170HR-CD-T (TIR) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < SWITCH > | |
| LSW800 | 1-762-619-11 | SWITCH, KEY BOARD (WITH LED) (⏏) | |
| | | < TRANSISTOR > | |
| Q800 | 8-729-424-08 | TRANSISTOR UN2111 | |
| Q801 | 8-729-421-22 | TRANSISTOR UN2211 | |
| Q802 | 8-729-421-22 | TRANSISTOR UN2211 | |
| | | < RESISTOR > | |
| R800 | 1-216-073-00 | METALCHIP 10K 5% 1/10W | |
| R801 | 1-216-073-00 | METALCHIP 10K 5% 1/10W | |
| R802 | 1-216-065-00 | METALCHIP 4.7K 5% 1/10W | |
| R803 | 1-216-037-00 | METALCHIP 330 5% 1/10W | |
| R804 | 1-216-057-00 | METALCHIP 2.2K 5% 1/10W | |
| R805 | 1-216-057-00 | METALCHIP 2.2K 5% 1/10W | |
| R806 | 1-216-057-00 | METALCHIP 2.2K 5% 1/10W | |
| R807 | 1-216-057-00 | METALCHIP 2.2K 5% 1/10W | |
| ********** | | | |
| | | MISCELLANEOUS | |
| | | ********** | |
| 2 | 1-776-527-41 | CORD (WITH CONNECTOR) (ISO) (POWER) | |
| 23 | 1-782-246-31 | CORD (WITH CONNECTOR) (SUB W.OUT/LINE OUT) | (C850RDS) |
| F901 | 1-532-877-11 | FUSE (BLADE TYPE (AUTO FUSE) 10A | |
| HP901 | 1-500-157-21 | HEAD, MAGNETIC (PLAYBACK) | |
| M901 | A-3291-665-A | MOTOR ASSY, MAIN (CAPSTAN/REEL) | |
| M902 | A-3291-664-A | MOTOR ASSY, SUB (LOADING/TAPE OPERATION) | |
| S901 | 1-692-885-11 | SWITCH, ROTARY SLIDE (TAPE OPERATION) | |
| ********** | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | ACCESSORIES & PACKING MATERIALS | |
| | | ********** | |
| | 1-473-067-31 | REMOTE COMMANDER (RM-X2S) | |
| | 3-856-246-21 | MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH,GERMAN,SPANISH,DUTCH,SWEDISH, ITALIAN,PORTUGUESE,CHINESE) (RM-X2S) | |
| | 3-859-454-11 | MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH,SWEDISH,PORTUGUESE) (C750RDS:AEP,UK) | |
| | 3-859-454-21 | MANUAL, INSTRUCTION, INSTALL (FRENCH, GERMAN,DUTCH,ITALIAN) (C750RDS:AEP,G) | |
| | 3-859-455-11 | MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH,SWEDISH,PORTUGUESE) (C850RDS:AEP,UK) | |
| | 3-859-455-21 | MANUAL, INSTRUCTION, INSTALL (FRENCH, GERMAN,DUTCH,ITALIAN) (C850RDS:AEP,G) | |
| | 3-859-456-11 | MANUAL, INSTRUCTION (ENGLISH,SPANISH, SWEDISH,PORTUGUESE) (AEP,UK) | |
| | 3-859-456-21 | MANUAL, INSTRUCTION (FRENCH,GERMAN, DUTCH,ITALIAN) (AEP) | |
| | 3-859-456-31 | MANUAL, INSTRUCTION (GERMAN) (G) | |
| | X-3373-617-1 | CASE ASSY | |
| ********** | | | |
| | | ********** | |
| | | HARDWARE LIST | |
| | | ********** | |
| #1 | 7-621-772-30 | SCREW +B 2X6 | |
| #2 | 7-621-255-15 | SCREW +P 2X3 | |
| #3 | 7-685-793-09 | SCREW +PTT 2.6X8 (S) | |
| #5 | 7-685-105-19 | SCREW +P 2X8 TYPE2 NON-SLIT | |
| #6 | 7-627-553-17 | PRECISION SCREW +P 2X2 TYPE 3 | |
| #7 | 7-624-104-04 | STOP RING 2.0, TYPE -E | |
| #8 | 7-628-253-00 | SCREW +PS 2X4 | |
| ********** | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | PARTS FOR INSTALLATION AND CONNECTIONS | |
| | | ********** | |
| 201 | 3-009-613-21 | FRAME | |
| 202 | 3-386-828-01 | SCREW, FITTING | |
| 203 | 3-349-410-01 | BUSHING | |
| 204 | 3-388-078-01 | KEY | |
| 205 | X-3370-077-1 | SCREW ASSY (AE.KEY), FITTING | |
| 206 | 3-012-213-01 | COLLAR | |
| 207 | 1-465-459-21 | ADAPTOR, ANTENNA | |
| 208 | 7-682-560-04 | SCREW +P 4X6 | |
| 209 | 1-776-527-41 | CORD (WITH CONNECTOR) (ISO) (POWER) | |
| 210 | 1-775-543-11 | CORD, GROUND | |
| 211 | X-3369-817-1 | BRACKET ASSY (RM-X2S) | |